Steven M. Matic

Senior IT Consultant | Cloud Architect | Enterprise Technology Strategist

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Summary

Results-driven senior IT consultant and cloud architect with a proven track record in banking, wealth management, capital markets and insurance. Combines strategic vision with deep technical expertise across multiple technical domains. A hands-on leader known for engaging cross-functional technical, product, and delivery teams at-depth, and consistently delivering impactful results. Expert in cloud transformation, solution architecture, and technical strategy.

Core Competencies

Digital Transformation	Solution & Technology Architecture	Technical Advisory	Stakeholder Engagement
Azure, GCP, "Multi-Cloud"	Cloud Networking	Security & Governance	DevOps CI/CD

Cloud & Hybrid Strategy
Foundations, IaaS/PaaS/SaaS (private, public, hybrid), CAF, Azure Arc, Well-Architected, serverless patterns, on-prem data center integration, multi-region expansions, data center migration strategies, availability & disaster recovery, ephemeral workloads, resilience planning, solution architecture, roadmaps

Multi-Cloud, & FinOps
Azure + GCP/AWS/IBM synergy, cost optimization, multi-cloud governance, resource tagging, budget controls, usage-based cost analysis, tier-based billing, FinOps frameworks, $X–$100M+ cloud adoption guidance, cost accountability

Program Engagement & Governance
SOW scoping, RFP processes, vendor management, multi-team collaboration, Agile/hybrid methodologies, backlog planning, risk management, resource coordination, stakeholder engagement, project delivery, executive alignment, program mobilization, TOGAF 9.1/9.2

Security & Zero Trust
NIST 800-53r4/r5, CSF 1.1, ISO 27001/2/27017, CIS Controls (7.1/v8), OWASP ModSecurity Core Rule Set (CRS 3.1), Zero Trust, micro-segmentation, threat risk assessments, CASB (Microsoft Defender for Cloud Apps), Defender, Azure Policy, Azure Sentinel, shift-left security, threat modeling

Cloud Networking
ExpressRoute, IPsec VPN, BGP, NAT Gateway, MPLS, hub/spoke, multi-DMZ, NGFW (CheckPoint, Palo Alto, Fortigate), Azure Firewall, WAF, latency management, on-prem to cloud connectivity, NVA, Infoblox DNS, Traffic Manager, Front Door

DevOps, CI/CD & Development
Azure DevOps, Jenkins, GitHub Actions, shift-left testing, GitOps, Python, PowerShell, Bash, ephemeral environment orchestration, branching, release pipelines, opinionated *, Terraform, ARM, Bicep, pipeline orchestration (YAML), cross-platform provisioning scripts, Cfengine, minimal manual intervention strategies

Identity & Access
AAD/Entra, B2C, OAuth 2.0, RBAC, conditional access, SCIM, on-prem AD federation, privileged access management, Key Vault

SRE & Observability
Azure Monitor, Dynatrace, Splunk, Prometheus, Grafana, chaos engineering, site reliability patterns, logging and alerting frameworks, performance tuning

Containers & Microservices
Docker, Kubernetes, AKS, service mesh, serverless microservices, Azure App Services, domain-driven design patterns, Helm, Azure Container Registry (ACR)

Data & Analytics
Azure Data Factory, Cosmos DB, Azure SQL, BigQuery, HDInsight, Synapse, Oracle DB/Exadata, data pipeline modernization, ETL/ELT, enterprise data warehousing, SQL/SSIS migrations, Azure Batch, "Azure Data Warehouse," data ingestion

HPC & Advanced Computing
HPC cluster design, GPU-based compute, batch orchestration, distributed systems, performance tuning, parallel processing for data-intensive workloads, Solaris, Linux, Windows, VMware, AVD

AI & ML Workloads
TensorFlow, PyTorch, MATLAB, Dataminr, IBM Watson NLP, Wolfram Alpha, MLOps, external data feeds (e.g., Questrade, Interactive Brokers), integration with serverless or container-based ML frameworks

Certifications & Training

Microsoft Azure AI Fundamentals	2025	Microsoft Azure Certified Solutions Architect Expert	2020
Certified Scrum Master	2019	Microsoft Azure Solutions Architect (70-535)	2018
Microsoft Azure Developer (70-532)	2017	Microsoft Azure Infrastructure Engineer (70-533)	2017

Professional Experience

GreenShield Canada   07/2023 – 01/2025
Cloud Architect (Consultant)   Toronto, ON, Canada

- Azure Platform SME & Foundations: Served as an Azure subject matter expert, aligning solution designs with TOGAF 9.2, Azure Cloud Adoption Framework (CAF), and Well-Architected best practices. Developed standardized landing zones using Infrastructure as Code (Terraform, ARM) and Azure Policy to enforce security and compliance for both serverless and container workloads. Led collaborative workshops to establish security baselines, standardized patterns, and CI/CD guardrails.

- DMZ Landing Zone & Advanced Network Security: Designed a multi-layer DMZ architecture featuring Azure Firewall, Azure Web Application Firewall (WAF), NAT Gateway, and Azure Bastion for secure ingress/egress. Configured BGP routing and IPsec VPN tunnels to on-premises and partner sites, introducing SSL VPN for employees and third parties and enforcing network segmentation. Translated OWASP CRS 3.1, NIST 800-53r5, ISO 27001, and CIS Controls v8 into Azure Policy Initiatives, maintaining a Zero Trust posture and security-by-design principles.

- Cross-Cloud Integration (Azure–GCP): Engineered a secure IPsec VPN interconnect between Azure and GCP, enabling protected PHI/PII data exchange. Collaborated closely with internal teams to address multi-cloud routing complexities (NAT, firewall rules) while meeting latency and regulatory requirements.

- DevSecOps & Observability: Implemented pipelines with Azure DevOps (Repos, Pipelines) for environment provisioning, adopting shift-left testing and GitOps principles. Deployed Azure Sentinel and Microsoft Defender to detect and respond to threats. Integrated Microsoft Cloud App Security (MCAS, now Microsoft Defender for Cloud Apps) and Veracode for application security scanning. Integrated Azure Monitor with third-party log shipping to off-site SOC.

- RBAC & Identity Management: Established enterprise-wide RBAC frameworks in Microsoft Entra ID (Azure AD) for both user and service accounts. Created conditional access and privileged access policies to minimize attack surfaces.

- FinOps & Cost Controls: Played a key role in developing a cost governance model with tagging, budgeting, and monthly usage reviews. Partnered with stakeholders to build dashboards for resource consumption and cost accountability.

- Stakeholder Engagement & Vendor Oversight: Coordinated cross-functional teams (Network, Cloud, Security) and oversaw external vendors, managing project backlogs, sprint planning, and status updates. Led technical workshops to mitigate risks and ensure alignment with enterprise architecture roadmaps.

- Platform Maturity & Future State: Enhanced platform resilience by extending the foundational architecture to a secondary Azure region, employing Terraform pipelines that segmented infrastructure by functional archetype (CAF). Drafted a multi-phase roadmap to incorporate additional core services, modernize security controls, and scale hybrid connectivity.

Results & Outcomes: Designed and deployed a multi-layer DMZ and advanced Zero Trust perimeter in Azure for mission-critical CRM program and broader platform—enabling secure on-prem–Azure–GCP (PII/PHI) connectivity under NIST/ISO controls. Acted as final-line engineering resource during high-visibility incidents, bridging cross-functional domains (Network, Cloud, Security), driving vendor refactoring, and elevating platform maturity for a secure, scalable foundation.

Skills & Tools: Architecture & Frameworks: TOGAF 9.2, Azure CAF, Microsoft Well-Architected Framework, Security & Compliance: NIST CSF 1.1, NIST 800-53r5, ISO 27001, CIS Controls v8, OWASP ModSecurity Core Rule Set (CRS 3.1), Zero Trust, RBAC & Privileged Access, Conditional Access, Microsoft Defender, Microsoft Defender for Cloud Apps (MCAS), Azure Sentinel, Key Vault, Networking: Azure Firewall/WAF, NAT Gateway, BGP, IPsec VPN, DMZ Design, Azure Bastion, DevOps & IaC: Azure DevOps (Repos, Pipelines), Terraform, ARM Templates, CI/CD, Azure Policy, Azure Monitor, Cloud & Governance: Azure Architecture, Hybrid/Multi-Cloud Integration, Cloud Security, FinOps (tagging, budgeting, cost controls), Stakeholder Engagement, Disaster Recovery & High Availability: Multi-region designs, secondary region architecture, on-prem to cloud VPN, resilience planning, Application Security: Veracode (SAST/DAST), shift-left testing, GitOps principles

Western Canada Lottery Corporation   06/2022 – 04/2023
Cloud Architect (Consultant)   Winnipeg MB, Canada

- Cloud Strategy & Adoption Roadmap: Defined a comprehensive cloud strategy aligned with WCLC's enterprise modernization efforts, covering SaaS, PaaS, IaaS, and private cloud consumption models. Mapped workload-specific security, compliance, and

data classification requirements to Azure services under a Zero Trust approach. Collaborated with senior leadership to ensure the roadmap supported WCLC's long-term strategic objectives and technology plans.

- Enterprise Architecture Integration (TOGAF 9.2): Leveraged TOGAF 9.2 reference models and WCLC's enterprise architecture continuum to incorporate new public cloud capabilities. Led technical and socialization workshops to establish governance frameworks for hybrid and multi-cloud adoption. Ensured alignment with existing security policies, including NIST CSF, ISO 27001/27017, and CIS Controls v8.

- Foundations Architecture & Initial Design: Oversaw the public cloud foundations architecture, developing a conceptual blueprint for Azure resource organization, ExpressRoute connectivity, Check Point Next-Generation Firewalls (NGFW), and DMZ networking. Established baseline technical standards—Azure Policy, Azure Monitor, and Microsoft Defender/Azure Sentinel usage—to guide future phases of WCLC's modernization.

- Data Center Network Design & Migration Planning: Architected strategies for two on-premises data center migrations plus a colocation migration at WCLC's cloud exchange provider. Defined integration paths with Azure Virtual WAN and ExpressRoute, addressing MPLS bandwidth, latency management, and in-transit encryption to meet NIST 800-53r4 and OWASP guidelines. Designed staged migration scenarios to decouple workloads and minimize risk during cutovers.

- Security & Compliance Alignment: Applied Zero Trust principles across newly proposed cloud consumption models, aligning with NIST 800-53r4. Evaluated NGFW capabilities, enforced RBAC in Azure for early deployments, and recommended Azure DevOps pipelines with shift-left testing for secure code releases. Ensured readiness for future advanced capabilities—such as Microsoft Defender for Cloud Apps (formerly MCAS)—by embedding security-by-design practices and micro-segmentation.

- Project Delivery & Stakeholder Engagement: Led cross-functional Agile workshops with management, infrastructure, network, and security teams to validate design decisions and requirements. Served as an escalation point for architectural challenges, coordinating external vendors and internal stakeholders to maintain delivery timelines. Provided continuous feedback loops into the broader enterprise architecture practice.

Results & Outcomes: Delivered a secure multi-cloud strategy for WCLC—integrating multi-site data center migrations, advanced NGFW, and shift-left DevSecOps—while aligning with TOGAF 9.2 and maintaining strict NIST/ISO compliance, mitigating adoption risk and establishing a future-ready cloud architecture.

Skills & Tools: Architecture & Frameworks: TOGAF 9.2, Enterprise Architecture, ITIL 4, Security & Compliance: NIST CSF 1.1, NIST 800-53r5, ISO 27001/27017, ISO 27002, CIS Controls v8, Zero Trust Architecture, Microsoft Defender, Azure Sentinel, Microsoft Defender for Cloud Apps (MCAS) readiness, Networking: Azure Virtual WAN, Azure ExpressRoute, MPLS networking, DMZ networking, Check Point Next-Generation Firewalls, DevOps & IaC: Azure DevOps (Repos, Pipelines), shift-left testing, Azure Policy, Azure Monitor, Cloud & Governance: Hybrid Cloud, Multi-Cloud, IaaS/PaaS/SaaS models, Data Center Migration, Cloud Exchange, Project Delivery, Agile Methodologies, Stakeholder Engagement, Disaster Recovery & High Availability: Multi-site migration planning, resilience for staged transitions, regulatory compliance

Interprovincial Lottery Corporation   08/2020 **–** 06/2022
Chief Architect (Consultant)   Toronto, ON, Canada
- National Lottery Modernization & Multi-Jurisdiction Integration: Led the architecture and delivery of a national lottery e-retailer ticket abstraction layer on Microsoft Azure, unifying digital ticket sales and management of high-volume products (Lotto Max, 6/49) across multiple provincial lottery entities. Designed an extensible platform to accommodate non-traditional products, creating Canada's first fully digital e-retailer sales integration solution at a national scale.

- Common System Utility (CSU) & E-Retailer Integration: Developed a Common System Utility architecture to significantly reduce multi-province integration costs for e-retailer partners. Conducted multi-week requirements workshops to align provincial lottery stakeholders on standardized APIs and service abstractions, enabling a nationally accepted solution.

- High Availability & Multi-Region Deployment: Designed an active–active Azure deployment spanning Central and Canada East regions, utilizing Availability Zones, Traffic Manager, Front Door, API Management, and synchronous replication via Azure Cosmos DB. Surpassed RPO/RTO targets (<15s RPO, 30m RTO) significantly.

- Advanced Networking & Security Segmentation: Implemented a hub-and-spoke topology with segregated DMZ VNets, inbound/outbound filtering (Azure Firewall, Next-Generation Firewall appliances), IPsec VPN tunnels, and ExpressRoute

connections for on-premises and inter-provincial links. Enforced a multi-layer perimeter with strict encryption in transit, micro-segmentation, and data classification boundaries.

- Zero Trust, Compliance & Guardrails: Unified security controls from multiple provinces under ISO 27001, NIST 800-53r5, CIS 7.1, and OWASP CRS 3.1. Created Azure Policy and Blueprint guardrails, establishing managed identities, RBAC, and baseline security controls. Integrated Azure Sentinel, Log Analytics, and Azure Monitor for SIEM/SOAR capabilities and real-time threat detection.

- Platform Run-Time & Container Strategy (AKS): Introduced a four-AKS-cluster model (front shared, front isolated, rear shared, rear isolated) in each region to segregate restricted workloads from public-facing services. Automated deployments via Azure DevOps (Repos, Pipelines), Helm, and Azure Container Registry, embedding security scans in Azure Security Center at each pipeline stage.

- DevSecOps & Pipeline-Driven Environments: Adopted shift-left security practices by implementing policy checks in CI/CD. Enabled ephemeral environments per commit for functional, performance, and security testing. Established automatic blocking for non-compliant code, offering near real-time feedback loops to development teams.

- Enterprise Architecture & Program Mobilization: Employed TOGAF 9.1 (including CERM) to define the digital program expansion architecture. Standardized governance and terminology for the platform and CSU across participating provinces. Led the effort from feasibility and RFP issuance through vendor selection, providing technical accountability and reference architectures. Supported ILC Legal with a unified taxonomy for all participating entities and stakeholders.

- Cost Governance & FinOps: Utilized Azure Cost Management to implement tier-based billing and tagging strategies, mapping environment usage to each e-retailer and regional marketing office (RMO). Delivered detailed consumption insights to provincial stakeholders, driving cost transparency and efficient resource utilization.

Results & Outcomes: Unified multi-province e-retailer integrations via design and development of a Common System Utility on a high-volume, active–active, multi-region Azure hosted solution—cutting integration costs by up to 500% for national e-retailers, surpassing sub-15s RPO/30m RTO, and embedding Zero Trust guardrails (NIST/ISO) into platform. Streamlined national onboarding for new digital games and established transparent FinOps governance at scale.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, Solution Architecture, Zero Trust Architecture, Security & Compliance: NIST CSF 1.1, NIST 800-53r4, ISO 27001/27002/27017, CIS 7.1, OWASP ModSecurity Core Rule Set (CRS 3.1), RBAC, Azure Policy & Blueprints, Azure Security Center, Azure Sentinel, Networking: Hub-and-Spoke Topology, Azure Firewall, Next-Generation Firewalls, IPsec VPN, ExpressRoute, DMZ Segmentation, Containerization & Orchestration: Azure Kubernetes Service (AKS), Helm, Azure Container Registry, DevSecOps & CI/CD: Azure DevOps (Repos, Pipelines), Shift-Left Security, Ephemeral Environments, Automated Policy Checks, High Availability & Disaster Recovery: Active–Active Multi-Region, Traffic Manager, Front Door, Synchronous Replication, SRE Principles, Cost Governance & FinOps: Azure Cost Management, Tier-Based Billing, Resource Tagging, Consumption Analysis, Enterprise Architecture & Program Delivery: CERM, RFP Process, Stakeholder Alignment

Softchoice Canada   05/2020 **–** 09/2020
Senior Cloud Architect (Consultant)   Toronto, ON, Canada
- Enterprise Azure Migrations (Financial & Public Sectors): Led multiple Azure migration engagements as both senior architect and hands-on engineer for mission-critical workloads. Defined end-to-end Azure Site Recovery (ASR) and Azure Migrate strategies, integrating on-premises networks with Azure Virtual WAN, VPN, ExpressRoute, and DMZ topologies.

- Security & Compliance Alignment: Applied NIST and ISO security standards, implementing Azure Monitor, Azure Policy, and Azure Blueprints to enable near real-time governance checks. Architected layered defenses with Azure Bastion, firewalls, and RBAC to meet diverse client security requirements.

- Reusable Architecture Patterns & Technical Advisory: Created a library of reusable Azure architecture patterns—including networking, security, and identity—to reduce project overhead on future migrations. Provided internal advisory on statement of work (SOW) scoping, best practices, and cloud adoption frameworks, speeding project startups and ensuring consistent architectures across engagements.

- Hands-On Engineering & Project Delivery: Blended senior-level solution architecture with hands-on provisioning of landing zones (Terraform, ARM, PowerShell). Collaborated with cross-functional teams to address escalations (e.g., directory services integration, security anomalies) while ensuring alignment with business goals and compliance demands.

Results & Outcomes: Accelerated secure Azure migrations for financial and public-sector clients—integrating advanced networking (Virtual WAN, ExpressRoute, VPN) with near real-time NIST/ISO guardrails (Azure Policy, Blueprints)—and delivered reusable architecture patterns that reduced project overhead, ensured compliance, and sped up future cloud adoption for the firm's clients.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, Solution Architecture, Reusable Azure Architecture Patterns, Security & Compliance: NIST CSF 1.1, NIST 800-53r5, ISO 27001/27002, Azure Monitor, Azure Policy, Azure Blueprints, Azure Bastion, Firewalls, RBAC & Privileged Access, Networking: Azure Virtual WAN, VPN, ExpressRoute, DMZ Networking, NAT Gateways, DevOps & IaC: Terraform, ARM Templates, PowerShell, Azure DevOps (Repos, Pipelines), CI/CD, Cloud Migrations & Governance:, Azure Migrate, Azure Site Recovery (ASR), Landing Zones, Data Center Migration, SOW Scoping, Project Delivery, Windows, Linux

CIBC Commercial Banking
Senior Cloud Architect (Consultant)

06/2019 – 03/2020
Toronto, ON, Canada

- Multi-Vendor Cloud Strategy & Advisory: Provided strategic guidance on Azure and IBM Cloud adoption, influencing more than $100M in projected platform spend. Evaluated solution viability, vendor offerings, and capability mapping for CIBC's Commercial Banking unit, ensuring alignment with business goals as well as NIST CSF 1.1, NIST 800-53, and internal security controls.

- Target Maturity Model & Roadmap: Analyzed existing Azure capabilities and conducted gap assessments based on a five-point maturity scale. Produced a prioritized improvement plan encompassing networking, security, and application migration pathways to optimize phase-by-phase cloud adoption.

- Architecture, CI/CD, & IaC Solutions: Delivered hands-on architectural designs for a range of initiatives, creating detailed CI/CD reference patterns with an n-scale IaC approach using Azure DevOps, PowerShell, ARM Templates, and YAML. Focused on secure connectivity and streamlined application hosting across Azure, IBM Cloud, and on-premises environments.

Results & Outcomes: Successfully guided CIBC executives through critical workload placement decisions across Azure and IBM Cloud—shaping over $100M in multi-cloud consumption investments —while delivering a five-point maturity roadmap and secure IaC pipelines (ARM, YAML) aligned with NIST 800-53, accelerating critical application deployments for CIBC Commercial Banking.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, Hybrid & Multi-Cloud Strategy, Cloud Adoption Roadmaps, Security & Compliance: NIST 800-53, NIST CSF 1.1, CIBC Internal Security Controls, Infrastructure as Code & DevOps: PowerShell, ARM Templates, YAML Pipelines, Azure DevOps (Repos, Pipelines), CI/CD Automation, Networking: ExpressRoute, Multi-Cloud Connectivity (Azure & IBM Cloud), On-Prem Integration, Governance & Roadmapping: Five-Point Maturity Model, Gap Assessments, Compliance Alignment, Vendor Evaluation, Project Delivery & Stakeholder Engagement: $100M+ Cloud Adoption Guidance, SOW Scoping, Agile/Hybrid Methodologies

Sourced Group
Senior Consultant (Site-Lead)

01/2019 - 05/2019
Toronto, ON, Canada

- $1B Global Azure Migration & Foundations (MasterCard): Served as Architect and on-site lead for an Azure foundations initiative aiming to migrate MasterCard's global workloads. Planned and led workshops, strategy sessions, and design reviews with federated teams (MasterCard, Microsoft, vendors), shaping the overarching architecture roadmap.

- High-Level Design & Edge Networking: Produced High-Level Design (HLD) artifacts detailing next-generation edge networking, partner/customer DMZ patterns, identity management, and multi-region consistency. Integrated advanced security controls—including network virtual appliances (NVA), next-generation firewalls (CheckPoint, Palo Alto), NSGs, and hub-and-spoke topologies—and leveraged Infoblox for DNS management.

- Architecture & Delivery Oversight: Guided the adoption of Azure IaaS/PaaS services (Cosmos DB, Azure SQL, App Service Environment, Key Vault, Azure AD, AKS), ensuring alignment with NIST 800-53 standards. Acted as the on-site liaison for security and network integration, coordinating consistent deployments across multiple global regions.

- Stakeholder Engagement & Governance: Collaborated with cross-functional teams to validate requirements, refine reference architectures, and mitigate technical risks. Advocated standardized solution patterns to accelerate deployment timelines while preserving compliance and performance benchmarks.

Results & Outcomes: Defined and built MasterCard's initial Azure foundations architecture—enabling a $1B global migration consumption—by establishing multi-region edge networking (CheckPoint/Palo Alto), DMZ patterns, and NIST 800-53 guardrails, while aligning the initial platform capability and security control needs of 28 different regional (country) teams.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, Solution Architecture, High-Level Design (HLD), Security & Compliance: NIST 800-53, Network Virtual Appliances (NVA), NGFW (CheckPoint, Palo Alto), NSGs, Azure Services: Azure IaaS/PaaS (AKS, Cosmos DB, Azure SQL, App Service Environment, Key Vault, Azure AD), Networking & Connectivity: Hub-and-Spoke Topologies, DMZ Patterns, Infoblox DNS, Project Delivery & Governance: Global Azure Migrations, Multi-Region Consistency, Reference Architectures, Stakeholder Engagement

Loblaw   11/2018 - 01/2019
Cloud Architect (Consultant)   Toronto, ON, Canada

- Architecture Governance for New Digital Media Agency: Served as the Data, Application, and Cloud Architect for a newly established in-house media agency. Led solution design workshops with business, technical, and platform teams to define core business processes and select the supporting technology stack.

- Azure Integration with Enterprise Ecosystem: Developed application and infrastructure designs on Azure, aligning them with Loblaw's established enterprise security, identity, and networking standards. Ensured seamless integration and compliance with internal governance requirements.

Results & Outcomes: Designed the core functionality for Loblaw's new in-house media agency and built its supporting Azure architecture—aligning data, application, and cloud layers with Loblaw enterprise security, identity, and networking standards under TOGAF 9.1 for a robust, integrated and governed digital platform.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, Solution Architecture, Architecture Governance, Azure & Cloud Services: Azure IaaS/PaaS (designing application and infrastructure layers), Enterprise Ecosystem Integration, Security & Identity Alignment: Enterprise Security Standards, Identity & Access Management (IAM), Network Standards, Stakeholder Engagement & Workshops: Cross-Functional Alignment, Requirement Gathering, Governance Practices

CIBC Capital Markets   03/2018 – 09/2018
Solution Architect (Consultant)   Toronto, ON, Canada

- Azure Security & Network Solutions: Collaborated with CIBC Engineering, DXC, and Microsoft to evaluate and deploy Azure-based security and network services. Led proofs of concept for next-generation firewalls (NGFW), network virtual appliances (NVA), and advanced routing (BGP, IPsec), streamlining Azure connectivity across Capital Markets.

- Database & Data Pipeline Migrations: Planned and executed migrations from on-premises SQL/SSIS to Azure Data Warehouse and Azure Batch, boosting data processing speeds while reducing operational complexity. Delivered end-to-end architecture and low-level integration designs tailored to critical business functions.

- Deployment Automation & CI/CD: Supported application refactoring in accordance with CIBC's cloud maturity objectives. Implemented automated pipelines using Infrastructure as Code (Terraform, ARM, PowerShell) and Azure DevOps, enhancing firewall change workflows and expediting releases in a high-demand environment.

Results & Outcomes: Migrated on-premises SQL/SSIS workloads to Azure Data Warehouse and Azure Batch—boosting data processing speeds and reducing overhead—while implementing advanced network (BGP, IPsec, NGFW) and IaC-driven pipelines (Terraform, ARM) to streamline secure Capital Markets connectivity and accelerate application release cycles.

Skills & Tools: Architecture & Frameworks: Enterprise Architecture, TOGAF 9.1, Cloud Adoption Frameworks, Security & Networking: NGFW, NVA, BGP, IPsec, Azure Connectivity, Data & Analytics: Azure Data Warehouse, Azure Batch, SQL/SSIS Migrations, DevOps & IaC: Terraform, ARM Templates, PowerShell, Azure DevOps (Repos, Pipelines), CI/CD, Project Delivery & Stakeholder Coordination: Proofs of Concept, Multi-team Collaboration, High-Volume Release Management

DXC Technology at CIBC Capital Markets   05/2017 – 02/2018
Lead Cloud Architect (Consultant)   Toronto, ON, Canada

- Public Cloud Enablement: Served as DXC's lead for CIBC Capital Markets' MODIF migration, building out the first public cloud environment for 35 mission-critical applications. Oversaw vendor-side architecture lifecycle—migrating workloads from POC to stable production deployments in Azure.

- Azure Connectivity & Security: Deployed two Azure connectivity models (VPN, ExpressRoute) across three subscriptions and seven environments, ensuring secure, highly available routes for Capital Markets. Developed a network security architecture and conducted proofs of concept for CheckPoint network virtual appliances (NVAs).

- Risk & Compliance Mitigation: Discovered and addressed a potential data exfiltration exploit in Azure SQL PaaS, collaborating with CIBC to preserve compliance with NIST 800-53 and internal security policies. Contributed to Threat Risk Assessments (TRAs) and authored best practices for secure cloud operations.

Results & Outcomes: Established CIBC Capital Markets' first public cloud environment for 35 mission-critical applications—migrating from POC to stable Azure production with secure VPN/ExpressRoute, CheckPoint NVAs, and NIST 800-53 guardrails.

Skills & Tools: Architecture & Frameworks: Solution Architecture, Enterprise Architecture, TOGAF 9.1, Security & Compliance: NIST 800-53, Threat Risk Assessments, Data Exfil Prevention, Networking & Connectivity: VPN, ExpressRoute, Network Virtual Appliances (CheckPoint), Cloud Services: Azure SQL PaaS, Migration from POC to Production, Project Delivery & Stakeholder Engagement: Multi-Subscription Environments, Vendor Management, Documentation of Secure Cloud Practices

SMOOP (Social Media Options Orchestration Platform)   02/2017 – 05/2017
Founder   Toronto, ON, Canada

- AI-Assisted Market Signals Platform: Conceived, designed, and led development of a proprietary system merging real-time social media data with quantitative analytics to generate actionable trading signals. Oversaw a four-person senior team, delivering an MVP that automated data ingestion, advanced analytics, and trade execution.

- Multi-Cloud & Big Data Integration: Employed Azure, GCP, and an AWS-based "walled garden" service to process large volumes of social and market data. Combined BigQuery, BigTable, and HDInsight for scalable analysis, while integrating external data streams (Questrade, Interactive Brokers, Dataminr). Enhanced signal accuracy using IBM Watson NLP and Wolfram Alpha for advanced computations.

- Innovation & Automation: Implemented a serverless microservices architecture via Azure Functions and Logic Apps, orchestrated through Terraform, ARM Templates, and CI/CD pipelines. Showcased a high-scale data processing pipeline that bridged multiple external services, resulting in a flexible MVP capable of evolving into an operational private trading platform.

Results & Outcomes: Launched an AI-driven, multi-cloud MVP that merged real-time social data with advanced analytics (Dataminr, Watson NLP, Wolfram Alpha) and serverless microservices—automating ingestion, analysis, and trade execution, and establishing a flexible foundation for future private trading expansions.

Skills & Tools: Architecture & Frameworks: Multi-Cloud Strategy, Serverless & Microservices, Data Lake/Big Data Architectures, AI & Advanced Analytics: IBM Watson NLP, Wolfram Alpha, Real-Time Quantitative Analysis, Cloud & Big Data: Azure, GCP, AWS "Walled Garden" Data Services: BigQuery, BigTable, HDInsight, DevOps & IaC: Terraform, ARM Templates, CI/CD Pipelines, Azure Functions, Logic Apps (Serverless Orchestration), APIs & Integrations: Questrade, Interactive Brokers, Dataminr APIs, Project Delivery & Leadership: MVP Design, Team Coordination, Agile Methodologies

McCarthy Tétrault   09/2016 – 02/2017
Enterprise Architect (Consultant)   Toronto, ON, Canada

- Cloud Adoption & Modernization: Led a $12M transformation to migrate critical legal services to Microsoft Azure in partnership with Canada's top three law firms. Developed a cloud adoption framework aligned with business priorities, ensuring regulatory compliance for sensitive legal data. Conducted firm-wide planning workshops to collect departmental input and built both interim and target architecture artifacts.

- Enterprise Architecture Governance: Introduced TOGAF 9.1 methodologies and established the firm's first Architecture Review Board (ARB). Defined current/future state models, implemented collaborative design gates, and coordinated roadmap initiatives.

- Vendor & Stakeholder Management: Contributed to statements of work (SOW), RFP processes, and strategic technology discussions. Directed the integration of Office 365 (Exchange Online, SharePoint Online), Enterprise Mobility + Security (EMS), Azure SQL, and SSIS. Oversaw disaster recovery redesign using Azure Site Recovery (ASR).

Results & Outcomes: Orchestrated and developed a $12M Azure modernization for critical legal workloads—ensuring proper handling of diverse legal data—and introduced the firm's first Architecture Review Board (TOGAF 9.1). Led firm's first workshops that defined interim/target roadmaps, unifying technology leadership on new capability requirements and establishing a cohesive cloud strategy.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, Enterprise Architecture, Architecture Review Board (ARB), Security & Compliance: NIST 800-53, ISO 27001/27002 (regulatory alignment for legal data), Azure & Hybrid Integration: Office 365 (Exchange Online, SharePoint Online), EMS, Azure SQL, SSIS, Azure Site Recovery (ASR), Project & Program Management| SOW/RFP Processes, Vendor Management, Budget Alignment ($12M), Stakeholder Engagement

Financial Services Commission of Ontario (FSCO)
Enterprise Technology Architect (Consultant)

12/2015 **–** 09/2016
Toronto, ON, Canada

- $54M Infrastructure Modernization Program: Led the development of FSCO's five-year technology strategy and oversaw infrastructure initiatives in a $54 million transformation. Defined architectural principles, technology architectures, coordinated RFP processes and vendor engagements, and ensured alignment with organizational objectives.

- Enterprise Roadmap & Target Architectures: Established a comprehensive technology roadmap with both interim and target architectures to support phased modernization. Introduced governance practices (TOGAF 9.1, ITIL), laying groundwork for future Azure-based cloud integration and disaster recovery enhancements.

- Stakeholder Collaboration & Delivery: Collaborated with FSCO's Head of IT, Chief Architect, and business/IT leaders to integrate requirements spanning data, application, and infrastructure domains. Oversaw vendor management to deploy Cisco networking, HP Blade compute, 3PAR storage, and next-generation firewall solutions that met evolving infrastructure needs.

Results & Outcomes: Successfully developed FSCO's $54M modernization program by defining a five-year technology plan, producing interim/target architectures (TOGAF 9.1, ITIL), and implementing new compute, storage, networking, and security infrastructure. Coordinated RFPs, vendor engagements, and cross-functional requirements gathering across the agency.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, ITIL Best Practices, Enterprise Architecture Governance, Infrastructure Modernization: Cisco Networking, HP Blade Compute, 3PAR Storage, Next-Generation Firewalls, Project & Program Management: $54M Transformation, RFP Coordination, Vendor Management, Budget Alignment, Cloud & Roadmapping: Future Azure Integration, Disaster Recovery (DR) Planning, Phased Modernization, Stakeholder Engagement & Governance: Executive Alignment, Architectural Principles & Review, Multi-Domain Requirements Gathering

Intact Financial
Integration Architect (Consultant)

03/2015 **–** 09/2015
Toronto, ON, Canada

- Program-Level Technical Leadership: Oversaw a 30+-member team spread across multiple regions for a $7 million Guidewire upgrade involving 400 servers. Developed integration strategies, architecture planning guidelines, and delivery templates, ensuring consistent processes and high-quality outcomes.

- Resolving Complex Delivery Roadblocks: Broke through a 10-month technical stalemate on Intact's core claims system by diagnosing and resolving severe performance bottlenecks. Recommended strategic vendor solutions, appropriate system sizing, and revised execution timelines, regaining stakeholder confidence.

- Integration Strategy & Architecture: Acted as Integration Architect in a pilot department, defining program-wide processes and technical design templates for eventual enterprise rollout. Mapped current vs. proposed architecture states and environment timelines for a multi-regional modernization initiative around Intact's back-office Guidewire platform.

- Agile Delivery & DevOps: Participated in daily scrums, backlog planning, and sprint retrospectives. Supported semi-automated code deployment by advising on continuous integration/continuous delivery (CI/CD) processes, reducing cycle times and facilitating more efficient environment updates.

Results & Outcomes: Broke a 10-month bottleneck on Intact's core claims system—coordinating a 30+ member, multi-regional team to deliver a $7M Guidewire upgrade across 400 servers. Established repeatable integration processes and Agile/DevOps practices, restoring stakeholder confidence and ensuring stable, high-performance deployments.

Skills & Tools: Architecture & Frameworks: Enterprise Architecture, TOGAF 9.1, ITIL Best Practices, SDLC/PMLC, Integration & Modernization: Guidewire Upgrade, Multi-Regional Deployment, Performance Tuning, Process Definition, DevOps & Agile Delivery: CI/CD Pipelines, Daily Scrums, Sprint Retrospectives, Backlog Planning, Project & Program Management: $7M Program Scope, 30+ Resource Coordination, Vendor Engagement, SOW Scoping, Stakeholder Collaboration: Cross-Functional Alignment

BMO Capital Markets
07/2014 **–** 03/2015
Global Technology Architect (Consultant) — Toronto, ON, Canada

- $26M Global Virtualization Platform: Designed and deployed a large-scale VMware vSphere solution—spanning 83 physical hosts and over 800 virtual machines—to meet high availability, storage replication, and DR requirements in a mission-critical Capital Markets environment. Implemented automated networking (MPLS + next-generation firewalls).

- Event-Driven Automation & Monitoring: Established a global logging and event-hook system to facilitate near real-time observability during provisioning. Integrated Cfengine for automated configuration, providing the foundation for robust DevOps pipelines and continuous delivery while improving post-deployment operational efficiency.

- Infrastructure Governance & Stakeholder Collaboration: Served on the global core infrastructure team, reporting to CMIT leadership. Coordinated vendor management (RFP, POC, escalations) and guided cross-functional groups on technical architecture and documentation. Ensured alignment with financial industry regulations and BMO's corporate standards.

Results & Outcomes: Delivered a $26M VMware vSphere platform (83 hosts, 800+ VMs) with automated networking (MPLS, next-gen firewalls) and event-driven Cfengine provisioning—enhancing high availability, streamlining DR, and ensuring availability for mission-critical Capital Markets operations.

Skills & Tools: Architecture & Frameworks: TOGAF 9.1, ITIL Best Practices, Technology Architecture, Virtualization & Infrastructure: VMware vSphere, Large-Scale Host Clusters, High Availability/DR Capabilities, Automation & Observability: Cfengine, Event-Driven Provisioning, Global Logging/Monitoring, Networking & Security: MPLS, Next-Generation Firewalls, Global Performance/DR Requirements, Project & Stakeholder Management: $26M Budget, RFP/POC Coordination, Vendor Escalations

Ontario. Min. of Community Safety	*Technology Specialist (Consultant)*	Canada, 01/2014 – 07/2014
Intact Financial	*Technical Architect (Consultant)*	Canada, 05/2012 – 10/2013
BMC Software	*Infrastructure Architect*	Canada, 11/2011 – 03/2012
Dundee Wealth	*Sr. Infrastructure Architect (Consultant)*	Canada, 08/2010 – 11/2011
Shoppers Drug Mart	*Technical Architect (Consultant)*	Canada, 02/2010 – 08/2010
Scotia Capital Markets	*Infrastructure Specialist (Consultant)*	Canada, 06/2009 – 01/2010
Torstar Media Group	*Technical Architect (Consultant)*	Canada, 01/2009 – 06/2009
Guardian Capital	*Technical Architect (Consultant)*	Canada, 10/2008 – 01/2009
HP Canada	*Platform Owner Linux (Consultant)*	Canada, 04/2008 – 10/2008
IBM Canada	*Security Specialist & Infrastructure Architect*	Canada, 10/2007 – 04/2008
Dundee Wealth	*Systems Administrator*	Canada, 06/2006 – 06/20
Multiple Clients	*Developer*	Canada, 1999 - 2005

(Experience from 2014 – 1999 is available on my LinkedIn Profile)