

SKILLS

- **Enterprise Architecture:** TOGAF, capability mapping, target-state architecture, governance, standards, roadmaps
- **Identity/API/Security:** IAM, OAuth, SSO, Zero Trust, API-first architecture, microservices, app security, privacy
- **Cloud/Platform:** AWS, GCP, Azure patterns, OCP/Kubernetes, Docker, Terraform, CI/CD, SRE, infrastructure as code
- **Data Platforms:** Kafka, Airflow, Snowflake, PostgreSQL, Redis, Elasticsearch, data governance, schema design
- **Engineering:** TypeScript, JavaScript, Python, Go, React, Node.js, REST APIs, GraphQL, Spring Boot concepts
- **Architecture Practice:** ADRs, design reviews, reference models, architecture boards, risk controls, audit trails
- **Leadership:** executive communication, stakeholder management, product partnership, mentoring, technical strategy
- **Observability:** OpenTelemetry, ELK, CloudWatch, distributed tracing, alerting, SLOs, production support

EXPERIENCE

- **Royal Bank of Canada (RBC)** Toronto, Canada
Staff Software Developer & Enterprise Architect Nov 2022 – Present
 - **Enterprise Architecture Strategy & Governance:** Operate in RBC's Enterprise Architecture group defining target-state architectures, architecture standards, governance patterns, security controls, and solution certification practices across distributed banking platforms.
 - **ASB Builder Platform – Patent-Pending:** Designed and led 0-to-1 delivery of enterprise blueprint platform using Node.js, TypeScript, React, REST APIs, real-time data rendering, rules-based recommendations, auto-certification workflows, and secure enterprise service matching.
 - **Digital Identity, API & Security Patterns:** Govern API-first, IAM, SSO, OAuth, gateway, Zero Trust, internal/external integration, fraud-resistant workflow, privacy, and data-handling patterns for regulated enterprise solutions across cloud and on-prem environments.
 - **Data Platform & Observability Architecture:** Architected OpenTelemetry-based telemetry platform using Vector, Fluent Bit, Kafka, and Logstash ingesting 150 TB/day across 10,000+ systems; enabled standardized monitoring, auditability, SLOs, and data-driven operations.
 - **Technical Reference Model:** Digitalised RBC technical reference model covering 1,000+ technologies and 1,500+ capabilities with ownership metadata, enabling data-driven governance, roadmap planning, and modernization decisions.
 - **Leadership Across Engineering/Data/Infrastructure:** Led 5 engineers through architecture reviews, code reviews, ADRs, sprint delivery, mentoring, executive-ready demos, and alignment with product, risk, security, infrastructure, and engineering stakeholders.
- **HealthCard (Acquired Startup)** Remote
Blockchain Architect & First Full Stack Engineer Aug 2021 – Jul 2022
 - **Secure Platform Architecture:** Joined as first engineer and built React/TypeScript frontend, Node.js/Express APIs, AWS EKS deployment, audit logging, Hyperledger Fabric verification, and trust-score data models for insurance validation and claims workflows.
 - **Identity, Verification & Compliance:** Designed fraud-resistant credential verification, document classification, HIPAA-aligned audit trails, and real-time premium validation workflows; reduced manual review by 60% and supported scale to 20+ engineers before acquisition.
- **Canada Revenue Agency (CRA)** Ottawa, Canada (Remote)
Software Developer Co-op Apr 2022 – Nov 2022
 - **Government Digital Platform Modernization:** Migrated federal tax platform UI from Apache Struts to React/TypeScript and contributed to backend APIs serving millions of Canadians with accessibility, security, quality gates, and maintainable code standards.
- **Dalhousie University** Halifax, Canada
Research & Teaching Assistant Jan 2021 – Aug 2022
 - **Algorithms, Systems & Cloud:** Researched call-stack decision algorithms and Python tracing tools for compiler/runtime analysis; TA for Algorithms, Software Development, and graduate Advanced Cloud Computing.

PROJECTS

- **Enterprise AI Architecture Assistant:** LLM + RAG interface under development for generating compliant architecture diagrams, security patterns, and service recommendations from natural-language business requirements.
- **Enterprise Reference Model Digitization:** Architecture data product linking technology standards, capabilities, application ownership, service patterns, and governance decisions for roadmap and modernization analysis.
- **DCS-BBN: Blockchain-Based Cloud Storage:** Designed decentralized storage using Solidity, Hyperledger Fabric, and zk-SNARK proofs for privacy-preserving verification; published in Springer ICMR.

EDUCATION

- **Dalhousie University** Halifax, Canada
MASc Applied Computer Science, GPA: 3.9/4.0 | TA: Algorithms, Advanced Cloud Computing Jan 2021 – Aug 2022
- **University of Toronto** Toronto, Canada
Enterprise Architecture Certification (3-semester program) Completed 2024
- **Gujarat Technological University** Ahmedabad, India
B.E. Computer Engineering, GPA: 3.92/4.0 Aug 2016 – Aug 2020