

# Mohamed Ibrahim

## Cloud-Native & AI Solutions Engineer

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### 🎓 EDUCATION

**Simon Fraser University**  
**Bachelor's Degree of Applied Science- Computer Engineering**

Sept. 2021 – 2026  
Burnaby, Canada

### 🧠 SKILLS

**Programming Languages:** C++/C (5+ yrs) | Python (5+ yrs) | TypeScript (4+ yrs) | JavaScript/Java (4+ yrs) | Flutter (2+ yrs) | SQL (4+ yrs) | HTML/CSS (4+ yrs) | GoLang (1+ yrs) | SwiftUI (3+ yrs) | Swift (3+ yrs)

**Developer Tools:** AWS | Azure | Firebase | Git/GitHub | React | MongoDB | LangGraph | TensorFlow | OpenAI | Postman | Grafana | RAG

**Project Management:** Jira | Bitbucket | Azure DevOps | Asana | Power BI | Power Apps | Jenkins | SharePoint | SAP Analytics Cloud

**IT & Risk Management:** | SAP GRC | AuditBoard | Nessus | ServiceNow GRC | Microsoft Entra | RBAC | MFA | SSO | OIDC | OAuth 2.0

### 📁 PROFESSIONAL EXPERIENCE

#### [QoreTek](#)

##### Founding Engineer

09/2025 – Present  
Doha, Qatar

- Shipped **2** Android/iOS apps with end-to-end ownership from data model to UI.
- Implemented thread-safe concurrency for storage/sync (background work, responsive UI).
- Defined edge cases with design/QA and shipped iteratively with clear implementation docs.
- Architected **3** AWS multi-tenant SaaS platforms (services, data model, infra, ops).
- Built a **RAG** pipeline that helped employees retrieve internal information faster.
- Built idempotent event-driven workflows (EventBridge/SQS, retries, DB uniqueness constraints).
- Established CDK IaC + CI/CD + observability (alerts, dashboards, runbooks).

#### Amazon AWS

##### Software Engineer - COOP

05/2025 – 08/2025  
Vancouver, Canada

- Reduced anomaly investigations from **15+ hours to <1 minute** by building an internal S3 anomaly triage tool (React + TypeScript UI; Scala/Kotlin services) enabling **interactive querying** of anomalies.
- Operationalized **30B+ records** by implementing a Scala batch detection job and an AWS Glue ETL pipeline to transform/enrich/load anomaly outputs into Amazon Aurora for fast querying and classification.
- Improved investigation throughput and query responsiveness by optimizing Aurora (schema design, indexing, query tuning), delivering **~10s end-to-end latency** for drill-down analysis and visualization.
- Hardened deployments and networking by provisioning infrastructure with AWS CDK and deploying into a VPC with controlled access patterns and repeatable release workflows.

#### Head Starter

##### Software Engineering Resident

06/2024 – 04/2025  
Remote, San Francisco

- Built **14** machine learning/AI engineering apps on AWS, integrating end-to-end testing in fast, lean and agile environments
- Deployed **11+** cloud-based applications in React, C++ on AWS, integrating unit and integration testing for backend reliability.
- Developed **5+** neural networks in Python, 11 apps in Typescript, AWS with development & production environments.
- Contributed to **10+** open-source API development and service-oriented architectures for stable, distributed systems.

### 📁 CONSULTING & TECHNOLOGY EXPERIENCE

#### Baker Tilly

##### IT Consultant - COOP

01/2024 – 04/2024  
Doha, Qatar

- Accelerated enterprise digital transformation planning by consolidating ERP integration requirements across 6 business units and translating business processes into technical evaluation criteria for **7 platform vendors** (data flows, interoperability, security, and scalability).
- Ensured compliance readiness (**ISO 27001**) of the enterprise application environment by documenting risks/controls for **18 systems** and producing DRP/BCMS artifacts that defined operational dependencies, recovery procedures, and system ownership.

### 📁 PROJECTS

#### Parking & Valet App | Partner Integrations (Full Stack)

- Built a valet discovery + pass app with in-app account linking that lets users connect a telecom provider and banks.
- Integrated telecom and banking systems to validate eligibility, apply rules to provision monthly valet passes, and support payments via secure **API** transactions.
- Integrated Maps for navigation to valet spots and added structured logging/monitoring to troubleshoot partner integration failures and improve reliability.