

Michael Suriawan

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TECHNICAL SKILLS

Languages: Java/Kotlin, Python, JavaScript/TypeScript, C#, C, R, SQL

Frameworks & Libraries: Spring, Google Guice, Pytorch, TensorFlow, Pandas, FastAPI, .NET, React, Node.js

Cloud & DevOps Tools: AWS/Azure/GCP, Docker/Kubernetes, Terraform, Git, Jenkins

AI & Data Tools: Cursor, Kiro CLI, Amazon SageMaker, MLflow, Pinecone, Apache Kafka, Amazon Redshift, Plotly

Certifications: Amazon Web Services (AWS) Certified Solutions Architect - Associate (2024)

Specialties: Software Engineering, Data Science, Machine Learning, System Architecture, MLOps, Cloud Computing

PROFESSIONAL WORK EXPERIENCE

Software Development Engineer II

March 2025 – Present

Vancouver, BC

Amazon Web Services - Route 53 Team

- Migrated Route 53 metering service to multi-region delta processing architecture, enabling accurate and reliable billing under Route 53's Accelerated Recovery feature responsible for over **\$50MM** in annual revenue
- Implemented change safety validation preventing deletion of Route 53 records with active alias dependencies, eliminating the root cause of **October 2025 DynamoDB LSE** that triggered a **global internet outage**
- Designed zone migration tooling and switchover workflows via AWS Step Functions and API request proxy; enables seamless migration of **millions** of RRSETs from us-east-1 to private and isolated regions with **zero downtime**
- Developed a routing policy that enables customers to configure DNS query fallback and failover behavior at Availability Zone (AZ) or Regional scope; achieves **sub-100ms P99** query resolution time during such failures
- Developed an **agentic AI workflow** that automates CloudWatch log gathering and customer message generation during recurring incidents, with LLM-based runbook interpretation and access to **MCP servers** under defined constraints; reduced incident mitigation to minimal human verification, cutting resolution time by **75%**

Software Engineer II

February 2022 – March 2025

Vancouver, BC

Copperleaf Technologies Inc.

- Implemented secure digital signature workflows for data import/export across **40+ client instances** within a **2-month** timeframe, eliminating security vulnerabilities in data transfer operations
- Developed an automated Excel importer that parses and uploads customer data to GitHub Enterprise using JGit, increasing Customer Experience (CX) team efficiency and saving **400+ staff hours** annually
- Deployed proactive heartbeat tests with Cypress, Jenkins, and PagerDuty, enhancing system reliability and reducing Mean Time To Detect (MTTD) to **1 minute**
- Led localization initiative to support 10 new languages, enabling the application to reach its first **\$1MM** revenue milestone and expand into new global markets

Software Engineer I

May 2021 – February 2022

Vancouver, BC

Copperleaf Technologies Inc.

- Led an 8-week C# code generator and converter project leveraging .NET asynchronous programming and Roslyn API, delivering a no-code solution that streamlined workflows, boosted Customer Experience (CX) velocity by **20%**, and achieved **99%** error-free code imports
- Optimized integration testing pipelines using JUnit and Mockito, reducing average runtime from 3 hours to **under 1 hour**, improving development and testing efficiency by **67%**

PERSONAL PROJECTS

Decoder-Only Transformer | *Python, PyTorch*

[GitHub Repo Link](#)

- Built decoder-only transformer from scratch implementing multi-head self-attention and positional encoding based on *Attention Is All You Need*, achieving comparable perplexity to baseline models on WikiText-2

EDUCATION

University of British Columbia

Vancouver, BC

Master of Data Science, Specializing in Artificial Intelligence & Machine Learning (GPA: 90%) 2024 – 2026 (Expected)

University of British Columbia

Vancouver, BC

Bachelor of Applied Science, Major in Mechanical Engineering (GPA: 85.0%)

2016 – 2021