

# Michael Suriawan

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## TECHNICAL SKILLS

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**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

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### Software Development Engineer II

March 2025 – Present

*Amazon Web Services - Route 53 Team*

*Vancouver, BC*

- 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

*Copperleaf Technologies Inc.*

*Vancouver, BC*

- 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

*Copperleaf Technologies Inc.*

*Vancouver, BC*

- 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

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### 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

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### 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*