Michael Suriawan

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Technical Skills

Languages: Python, Java/Kotlin, JavaScript/TypeScript, C#, SQL/PostgreSQL, R, C
Frameworks & Libraries: FastAPI, Django, Spring, .NET, React, Node.js, PyTorch, TensorFlow, scikit-learn
MLOps & Cloud: Docker, Kubernetes, MLflow, Weights & Biases, Airflow, Ray, ONNX, AWS, Azure, GCP, Terraform
AI & Data Tools: LangChain, LlamaIndex, FAISS, OpenAI API, SQL/ETL Pipelines, Data Versioning
Specialties: Software Engineering, Machine Learning, MLOps, Cloud Computing, System Design, Scalable AI Apps

Professional Work Experience

Software Development Engineer II March 2025 – Present
Amazon Web Services - Route 53 DNSSEC Team *Vancouver, BC*

- Migrated TrafficFlow metering service from single-stream to multi-stream delta processing, enabling accurate and reliable billing under Route 53's new multi-region architecture responsible for over $10MM in annual revenue
- Developed a control-plane feature that enables internal customers to configure DNS failover routing via Availability Zone (AZ) or Regional scope, with enhanced DNS change safety validation and consistency checks to prevent misconfiguration; supports sub-100ms DNS query resolution and zero downtime during AZ or regional failures
- Participated in weekly 24/7 on-call rotations for Route53 services, resolving Sev-2 incidents with < 10 min median response time and maintaining 99.99% service availability in alignment with global SLA commitments
- Designed and planned for hosted zone migration tooling and switch-over workflows via AWS Step Functions and request-proxy; enables seamless RRSET migrations from IAD to isolated/private regions with zero downtime; collaborated across control plane, data plane and change propagation teams, and presented plan to leadership
- Developed an agentic AI script that automates CloudWatch log gathering and customer message generation during recurring incidents, with the model reading runbook steps and accessing MCP servers under defined operational constraints; reduced incident mitigation to minimal human verification, cutting prep and response time by 75%

Software Engineer II February 2022 – March 2025
Copperleaf Technologies Inc. *Vancouver, BC*

- Implemented a secure digital signature workflow for data import/export across client instances within a 2-month timeframe, reducing cybersecurity vulnerabilities by 20%
- Developed an automated Excel importer that parses and uploads customer data to GitHub Enterprise using JGit, increasing support 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
- Delivered a major 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 the Roslyn API, delivering a no-code solution that streamlined workflows, boosted CX (Customer Experience) velocity by 20%, and achieved 99% error-free code imports
- Optimized the integration testing pipeline using JUnit and Mockito, reducing runtime from 3 hours to under 1 hour and improving testing efficiency by 67%

Personal Projects

Decoder-Only Transformer | *Python, PyTorch* GitHub Repo Link

- Implemented a transformer model based on "Attention Is All You Need" paper to deepen understanding of NLP, language modeling, and attention mechanisms, with hands-on experience in tokenization and text generation

Education

University of British Columbia Vancouver, BC
Master of Data Science, Specializing in Artificial Intelligence and Machine Learning (GPA: 90%) *2024 – 2026*

University of British Columbia Vancouver, BC
Bachelor of Applied Science, Major in Mechanical Engineering (GPA: 85.0%) *2016 – 2021*