

# Michael Suriawan

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## TECHNICAL SKILLS

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**Languages:** Python, Java, C#, JavaScript/TypeScript, R, C, SQL (PostgreSQL), MATLAB, HTML/CSS/SASS  
**Web Frameworks:** Spring, .NET, React, Angular, Node.js, Nginx, NgRx, RxJs, Django, Cypress, Selenium, JUnit  
**AI/ML Frameworks:** PyTorch, TensorFlow, scikit-learn, spaCy, NumPy, Pandas, Tidyverse, Altair, Matplotlib, ggplot2  
**Developer Tools:** Git, Docker, Amazon Web Services (AWS), Ansible, Jenkins, Google Firebase, Azure DevOps, Jira  
**Specialties:** Full-Stack, Machine Learning, Data Engineering, Backend, System and Architecture, Cloud Computing

## PROFESSIONAL WORK EXPERIENCE

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

- Led 8 engineers in the **.NET** modernization initiative to migrate 25 legacy ASP.NET Web Form pages to **Angular**, resulting in a 20-point improvement in user experience's Net Promoter Score (NPS)
- Enforced and integrated a **digital signature** workflow for data export-import processes between client instances within a 2-month time frame, reducing **cybersecurity** vulnerabilities by approximately 20%
- Developed an Excel importer that parses and pushes customer data to **GitHub Enterprise** as branches via **JGit**, improving the efficiency of the customer support team by saving over 400 staff hours per year
- Deployed heartbeat tests using **Cypress**, **Jenkins** and **PagerDuty**, significantly enhancing the application's health-check procedures by decreasing its mean time to detect (MTTD) down to 1 minute
- Implemented **Hibernate** multi-session (L2) caching with **EhCache3**, boosting API performance by roughly 30%

**Software Engineer I** May 2021 – February 2022  
*Copperleaf Technologies Inc.* Vancouver, BC

- Completed a **localization** project that added support for **10 new languages**, a crucial project in helping the new application reach its first \$1MM revenue milestone
- Spearheaded the development of an 8-week C# code generator and converter project utilizing .NET's **asynchronous programming** features and **Roslyn API**. Delivered a 'low-code' solution that streamlined user workflows, improved developer velocity by 20%, and enhanced C# code importer reliability to be 99% error-free
- Accelerated the team's integration test pipeline using **JUnit** and **Mockito**, reducing its run-time from 3 hours to under an hour, achieving an approximately 67% improvement in speed
- Utilized **Ansible** to connect **AWS EC2** instances to **New Relic**, ensuring comprehensive platform observability

**Software Engineer Co-op** January 2020 – September 2020  
*Copperleaf Technologies Inc.* Vancouver, BC

- Created new API endpoints to efficiently retrieve and summarize customer's internal reporting data from **Amazon RDS**, significantly enhancing data accessibility and processing efficiency
- Refactored backend services using **design patterns**, boosting the storing and reporting engine speed by 8%
- Improved the application's **E2E** test coverage by 35% through the use of **Selenium** and **JQuery**

## PERSONAL PROJECTS

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**Decoder-Only Transformer** | *Python, PyTorch* [GitHub Repo Link](#)

- Developed a transformer model inspired by the paper "*Attention Is All You Need*", demonstrating **GPT-like text generation** capabilities using the complete works of William Shakespeare
- Utilized **bigram language model** with custom **tokenization** and **attention mechanisms** to preprocess raw data and train the decoder-only transformer model

## EDUCATION

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**University of British Columbia** Vancouver, BC  
*Master of Data Science, Specializing in Artificial Intelligence and Machine Learning (GPA: 90%)* 2024 – 2025

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

## CERTIFICATION

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**Amazon Web Services (AWS)**  
*Certified Solutions Architect - Associate* August 2024