

Michael Suriawan

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TECHNICAL SKILLS

Languages: Java, Kotlin, C#, Python, JavaScript, TypeScript, C, SQL (PostgreSQL, Oracle), HTML/CSS/SASS
Frameworks: Spring, .NET, Angular, React, NgRx, RxJs, Nginx, Django, Cypress, Selenium, JUnit, Node.js
Developer Tools: Git, Docker, Amazon Web Services (AWS), Jenkins, Ansible, Azure DevOps, Jira, Google Firebase
Specialties: Full-Stack, Frontend, Backend, Cloud Computing, DevOps, CI/CD, System Design, Automation, AI/ML

PROFESSIONAL WORK EXPERIENCE

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 the Net Promoter Score (NPS) for user experience
- 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 20%
- Spearheaded an 8-week C# solution converter project by leveraging .NET's **asynchronous programming** capabilities and **Roslyn API**, increasing the reliability of the solution importer to be 99% error-free
- 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) to 1 minute
- Implemented **Hibernate** multi-session (L2) caching with **EhCache3**, boosting API performance by 30%
- Mentored co-ops and juniors through series of code walkthroughs, debugging and pair-programming sessions

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 application reach its first \$1MM revenue milestone
- Championed a 6-week code generator project that utilizes **Apache Velocity Template** and **CodeDOM**, streamlining user's workflow to a 'low-code' model, while also increasing developer velocity by 20%
- 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
- Built an image-uploading feature with **Amazon S3** to aid Tech Sales' team with their demos and presentations

Software Developer 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**

Manufacturing Engineer Co-op

August 2018 – January 2019

GEA Refrigeration Canada

Richmond, BC

- Built the manufacturing team's budget and time calculator by leveraging **Visual Basic** and **Python**

EDUCATION

University of British Columbia

Vancouver, BC

Master of Data Science (Currently Attending)

2024 – 2025

University of British Columbia

Vancouver, BC

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

2016 – 2021

CERTIFICATION

Amazon Web Services (AWS)

Certified Solutions Architect - Associate

August 2024