

# MICHAEL SURIWAN

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## Technical Skills

- Java | Kotlin | C# | Python | TypeScript | Spring Boot | .NET | Angular | React | NgRx | Redux | RxJs | Nginx | Git
- HTML | CSS/SASS | Selenium | Cypress | Django | AWS | Docker | Jenkins | Ansible | PostgreSQL | Oracle | Firebase
- Frontend | Backend | DevOps | Full-Stack | CI/CD | System Design | English, Indonesian – Bilingual Proficiency

## Professional Work Experience

Copperleaf Technologies – Intermediate Software Engineer

Vancouver BC | February 2022 - Current

- Enforced and implemented **signature encryption** for external files being transported between Copperleaf's products in order to resolve the company's cybersecurity vulnerabilities
- Leveraged **.NET's** asynchronous programming ability and **Roslyn API** to automatically populate customer's C# files which automates their code-writing process
- Implemented **Hibernate** L2 multi-session caching with **EhCache3** which improved the backend API's performance by approximately 30%
- Developed an importer that parses and pushes customer data to our **GitHub Enterprise** server as branches via **JGit**
- Utilized **Ansible** and **Docker** to connect our **AWS EC2** instances with **New Relic** for better platform observability
- Improved availability monitoring by deploying heartbeat tests connected to PagerDuty using **Cypress.io** & **Jenkins**
- Mentored co-ops & juniors on the team through series of code walkthroughs, debugging & pair-programming sessions

Copperleaf Technologies – Junior Software Engineer

Vancouver BC | May 2021 – February 2022

- Developed a CRUD web page, along with a two-way C# serializer that reads, stores and writes C# Data Table entities with **Angular**, **Spring**, **Apache Velocity Template** engine and **Roslyn API**. This transformed our customer's framework creation process to be as "low-code" as possible
- Designed and built an image-uploading feature by leveraging **Amazon S3** cloud object storage to help Tech Sales' team with their monthly demos on company's strategic objectives
- Implemented **localization** in **10 supported languages** in the application which improves the global user experience

Copperleaf Technologies – Software Developer Co-op

Vancouver BC | January 2020 – September 2020

- Developed a CRUD web page with responsive components and its APIs by leveraging **AngularJS**, **.NET** and **Oracle**
- Wrote new API endpoints to fetch and summarize customer's internal reporting data from **Amazon RDS**
- Refactored backend services code using **Design Patterns** that improved the storing and reporting engine speed by 8%
- Improved the team's **E2E** test coverage by 35% through the use of **Selenium** and **JQuery**

GEA Refrigeration Canada – Manufacturing Engineer Co-op

Richmond BC | August 2018 – January 2019

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

## Certification

AWS Certified Solutions Architect – Associate

Amazon Web Services – October 2023

## Education

Bachelor of Applied Science – The University of British Columbia

GPA: **85.0%** | 2016 – 2021

Major in Mechanical Engineering – Degree with Distinction

## Technical Projects

Twitter Clone – 2019

[Link](#) | [FE Repo](#) | [BE Repo](#)

- Developed APIs for login authentication, image uploads and user notifications by utilizing **Node.js** and **Firebase**
- Leveraged **React** & **Material-UI** to simplify the application's components creation step for grids, cards & buttons