





# MICHAEL SURIWAN

 [LinkedIn](#) |  604-710-3073 |  [michaelsuriawan.tech](https://michaelsuriawan.tech) |  michael08ace@gmail.com |  [GitHub](#)

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## Technical Skills

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

## Professional Work Experience

Copperleaf Technologies - Intermediate Software Engineer Vancouver BC | February 2022 - Current

- Promoted within a nine-month timeframe for exceeding goals & supporting company culture
- Fixed the application's cybersecurity vulnerability by enforcing **Signature Encryption** for imported XLSX & SQL files
- Developed an XLSX importer that parses client framework data to **GitHub Enterprise** server as branches via **JGit**
- Improved the team's unit & integration tests performance speed by 67% through the use of **Mockito** framework
- Mentored co-ops on the team through series of code walkthroughs, debugging as well as pair-programming sessions

Copperleaf Technologies – Junior Software Engineer Vancouver BC | May 2021 – February 2022

- Member of Copperleaf's *Value* team that specializes as a full-stack software engineer
- Built a two-way **C# serializer** by utilizing **Apache Velocity Template** engine & **C# Roslyn Analyzers**
- Designed an image-uploading feature by leveraging **Amazon S3** Cloud Object Storage
- Participated in **code reviews** with other engineers to make sure that the quality of the code are always maintained

Copperleaf Technologies – Software Developer Co-op Vancouver BC | January 2020 – September 2020

- Member of Copperleaf's *Predictive Analytics* team responsible in delivering the best investment strategies for clients
- Developed a new user interface with responsive components along with its RESTful APIs by leveraging **AngularJS**
- Designed new API endpoints to fetch & summarize customer's internal reporting data via the **.NET Framework**
- Refactored backend services code using **Design Patterns** that improved the storing & reporting engine speed by 8%
- Improved the team's **E2E** test coverage by 35% through the use of **Selenium & JQuery**

GEA Refrigeration Canada – Manufacturing Engineer Co-op Richmond BC | August 2018 – January 2019

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

## Education

Bachelor of Applied Science – The University of British Columbia  
Major in Mechanical Engineering – Degree with Distinction

GPA: **85.0%** | 2016 – 2021

## Technical Projects

Twitter-Clone Social Media

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

- Social media application where user could create, like & comment on posts with an active notification system
- Developed multiple APIs for login authentication, image uploads & user notifications by utilizing **Firebase**
- Leveraged **Material-UI** to simplify the components creation of grids, cards & buttons

Tetris

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

- Fully-functioning *Tetris* game for the web browser that gets progressively more difficult further into the game
- Leveraged **React lifecycle hooks** to determine *Tetris* pieces orientation & location moving downwards with time

Sudoku Solver

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

- Webpage that solves a *Sudoku* question board by utilizing generative recursion & backtracking approach

## Awards

- Faculty of Applied Science: 2019 Dean's Honour List – The University of British Columbia – 2019W Session
- Faculty of Applied Science: 2018 Dean's Honour List – The University of British Columbia – 2018W Session