MICHAEL SURIAWAN

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Technical Skills

- Java | Kotlin | C# | Python | TypeScript | Spring Framework | .NET | Angular | React | NgRx | Redux | RxJs | 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

- Utilized **Spring Security**'s custom expression handlers and permission filters to secure our API endpoints
- Implemented **Signature Encryption** for imported external files to fix the application's cybersecurity vulnerabilities
- Developed an Excel file importer that parses and sends client data to **GitHub Enterprise** server as branches via **JGit**
- Wrote and deployed **Cypress** heartbeat test using **Docker** and **Jenkins** to monitor the application's uptime availability
- Improved the team's unit and 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

- Built a two-way **C# serializer** by utilizing **Apache Velocity Template** engine and **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

- Developed a web page with responsive components along with its RESTful APIs by leveraging **AngularJS** and **.NET**
- Designed new API endpoints to fetch and summarize customer's internal reporting data via the **.NET Framework**
- 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**

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 Social Media Link | FE Repo | BE Repo

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

Tetris Link | Repo

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

Sudoku Solver Link | Repo

- Webpage that solves a *Sudoku* question board using generative recursion and backtracking algorithm for its solution

Awards

Faculty of Applied Science: Dean's Honour List at The University of British Columbia: 2020W, 2019W, 2018W sessions