**MICHAEL SURIAWAN**

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**Work Experience**

**Copperleaf Technologies** – Software Developer

May 2021 – Current Vancouver BC

* Built and maintained multiple features of *Copperleaf’s Value* application as a full-stack engineer, while providing extensive test coverages for all new features
* Refactored parts of the codebase to improve both readability and performance of the code running the application
* Participated in code reviews with 5 other engineers to make sure the quality of the code being merged are always maintained
* Collaborated with an agile team of 8, while taking the role of a knowledge owner, responsible in grooming the details of any upcoming features
* Communicated with stakeholders to determine the best solution to our user’s problem
* Involved in the hiring and interview process of future developers joining the team with 3 other team members

Stack: Angular, NgRx, Spring Boot, Kotlin, C# .NET, Django, Python, PostgreSQL, Selenium

**Copperleaf Technologies** – Software Developer Co-op

January 2020 – September 2020 Vancouver BC

* Worked on multiple features and bug-fixing tasks for *Copperleaf’s Predictive Analytics* team
* Developed new webpage with responsive web components and RESTful APIs that replaced the use of our spreadsheet importer, making the app more intuitive and easy to use
* Designed backend services that improved the app’s storing and reporting engine by 8%
* Improved the application’s test coverage by 35% through UI automation tests with Selenium WebDriver
* Leveraged agile development modern tools such as Azure DevOps, Jira and Confluence

Stack: AngularJS, ASP.NET, C#, SQL, Selenium, Jenkins

**Technical Projects**

**React Social Media** || [Link](https://mikem2m.github.io/Social-Media-Final/) || [FE Repository](https://github.com/mikem2m/React-Social-Media) & [BE Repository](https://github.com/mikem2m/Firebase-Social-Media)

* Built a social media application where user could create, like and comment on posts with an active notification system
* Designed multiple RESTful APIs that handle login authentication, image uploads and user notifications
* Leveraged Material-UI to simplify the components creation of grids, cards and buttons
* Utilized Redux as the application’s state management system

Stack: React, Redux, Material-UI, Firebase, Express, Node.js

**Tetris** || [Link](https://mikem2m.github.io/Tetris/) || [Repository](https://github.com/mikem2m/Tetris)

* Developed a fully-functioning *Tetris* game for the web browser that gets progressively more difficult as the player proceed further into the game
* Applied React lifecycle hooks to determine *Tetris* pieces orientation and location moving downwards with time
* Implemented a horizontal line checker to see when and which *Tetris* pieces should be destroyed
* Used styled-components package to write CSS inside the JavaScript file

Stack: React, HTML, CSS

**Sudoku Solver** || [Link](https://mikem2m.github.io/Gh-pages-SudokuSolver/) || [Repository](https://github.com/mikem2m/SudokuSolver)

* Created a web page that allows the user to submit a *Sudoku* question board and get the solution of that *Sudoku* board
* Utilized generative recursion and backtracking search approach for the solution-finding algorithm of the *Sudoku* solver
* Used Bootstrap to simplify the process of styling the question board and buttons

Stack: HTML, CSS, TypeScript, Bootstrap

**Technical Skills**

**Frontend**: Angular, AngularJS, NgRx, React, Redux, HTML, CSS (SASS), Bootstrap

**Backend**: Spring Boot, .NET, ASP.NET, Firebase, Express, Django, PostgreSQL

**Languages**: C#, Java/Kotlin, JavaScript/TypeScript, Python, C, MATLAB, SQL

**Others**: Selenium, Docker, Jenkins, Git, GitHub

**Education and Awards**

**The University of British Columbia**

Bachelor of Applied Science – Degree with Distinction

Mechanical Engineering: 2016-2021

GPA: **80.1%**

**The University of British Columbia**

Faculty of Applied Science – 2019W Session

2019 Dean’s Honour List

**The University of British Columbia**

Faculty of Applied Science – 2018W Session

2018 Dean’s Honour List