MICHAEL SURIAWAN

michael08ace@gmail.com (604)-710-3073 LinkedIn Portfolio

Professional Work Experience

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

- Promoted within a nine-month timeframe for exceeding goals & supporting company culture
- Member of *Copperleaf's Value* team; Specializes as a full-stack software engineer
- Developed an XLSX importer that parses customer framework data and pushes these data to GitHub (*our customer data platform*) as branches by leveraging JGit
- Built a two-way C# serializer that reads and writes Data Table objects by utilizing Apache Velocity Template engine for the writes and C# Roslyn Analyzers for the reads
- Designed an image-uploading feature by leveraging Amazon S3 Cloud Object Storage
- Improved the team's unit tests and integration tests performance speed by 67% through the use of Mockito framework
- Participated in code reviews with other engineers to make sure the quality of the code being merged are always maintained

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

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

- Member of the *Predictive Analytics* team responsible in delivering best investment strategies
- Developed an intuitive and user-friendly UI with responsive components, along with its RESTful APIs that allows the user to move away from using an outdated XLSX importer tool
- Designed new API endpoints to fetch and summarize customer's internal reporting data
- Refactored backend services that improved the storing and reporting engine speed by 8%
- Improved the team's E2E test coverage by 35% through the use of Selenium

Stack: AngularJS, ASP.NET, C#, Oracle

Technical Projects

Twitter-Clone Social Media || Link || FE Repository & BE Repository

- 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 by utilizing Firebase
- 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 || Repository

- 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
- Experimented with styled-components package to write CSS inside the JavaScript file

Stack: React, HTML, CSS

Sudoku Solver || Link || Repository

- 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, RxJs, React, Redux, HTML, CSS (SASS), Bootstrap

Backend: Spring Framework, .NET, ASP.NET, Firebase, Express, Django

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

Others: Selenium, Docker, Jenkins, Git, GitHub, PostgreSQL, Oracle

Education and Awards

The University of British Columbia
Bachelor of Applied Science – Degree with Distinction
Mechanical Engineering: 2016-2021
GPA: **85.0%**

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