Brandon Wong . Jarvis Consulting

I am an aspiring software engineer who enjoys piecing blocks together: be it ideas from disciplines, people from different teams, or applications from different industries. I have a strong technical skills and an academic background in engineering, full-stack development and web design. My passion lies in solving business problems to communicate complex ideas to non-technical stakeholders. In Ensemble Technologies Inc., I collaborated with a team of six to transform a client's mobile car inspection application to reduce the client service time by 20%. In my undergraduate studies, I've taken on various leadership roles leading teams of 3+ developers to build 5+ full-stack applications that satisfies a clients' needs. I was able to adjust to different team dynamics, translate from requirements to manageable tasks and meet to tight timeframes. I graduated in April 2024 and I'm interested in full-time software developer roles. Please feel free to get in touch with me via email at brandon-wh-wong@outlook.com.

Skills

Proficient: Java, Spring Boot/Gradle/Maven, Docker, Git, Agile/Scrum

Competent: JavaScript/TypeScript, Angular/React/Vue, NodeJS/ExpressJS, C/C#/C++, Python

Familiar: NVidia CUDA, Python Data/Pandas/Scikitlearn, Jenkins/Kubernetes, AWS/Azure/GCP, Java Concurrent Library

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_BrandonWong

Linux Cluster Resource Monitoring Project [GitHub]: This project is an automated system that keeps track of the resources utilized by a Linux Cluster. It tracks the cpu, memory and disk usage of the given machine and persists all this information within a dedicated database. It is written for system admins or developers who manage actual/virtual Linux machines.

RDBMS and SQL [GitHub]: This project is documentation on PostgreSQL exercises on the following topics: Basics, Join, Aggregation and String. These exercises ensure that the develop can perform queries on a relational database using practical features and formatting.

Highlighted Projects

Mini-C Compiler from Scratch [GitHub]: Built a Java compiler to transform a subset of the C language into machine code, achieving an 80% test pass rate. Designed a Lexer, Parser and Semantic Analyzer to transform a valid program to an Intermediate Representation. Developed a Code Generator and Register Allocator to convert the IR of a program to MIPS assembly code. Formulated and implemented detailed JUnit tests for the compiler, achieving 72% code coverage and reducing maintenance costs by 20% through early bug detection.

Customer Relation Management Systems [GitHub]: Created a CRM system to track and manage 20+ potential prospects and existing clients with consultancy services. Designed the client-side platform to allow users to manage prospects and to customize the client acquisition workflow. Collaborated with a team of four to implement the server-side infrastructure to manage data persistence and task automation defined by users.

Gomoku MCTS AI Agent using Parallel Schemes [GitHub]: Designed and compared the performance of the Monte Carlo Tree Search algorithm utilizing Root and Leaf parallelization schemes on the game of Gomoku.

Professional Experiences

Software Developer Trainee, Jarvis Consulting (2024-present): Develop web application hosted on remote machines to track linux cluster information

Co-Founder, Ensemble Technologies Inc. (2022-2024): Transformed and refactored a client's mobile car inspection application to view and perform on-sight inspection that extended a contract from 6 to 18 weeks. Hired, coached and led development team of three in UI/UX, full-stack development and software testing practices.

Frontend Web Developer, Radish Cooperative (2021-2022): Implemented robust sales enablement tools, facilitating access to sales data across 15+ restaurants and streamlining product management processes across five ordering

platforms. Enhanced the online-ordering platform by updating the Angular code base with RxJS and Bootstrap, resulting in a 30% improvement in system performance and reducing order processing time by 25%.

Android Developer, McGill University [Dr. Benjamin Fung] (2020): Built an embedded android application that controls the TEMI robot to guide guest around the School of Information at McGill University.

Research Assistant, McGill University [Dr. Benjamin Fung] (2019): Transformed clinical raw data from the MIMIC-III database into an edgelist data structure using Python data analytical libraries.

Education

McGill University (2022-2024), Bachelor of Software Engineering, Faculty of Engineering - Graduated with Internship Program

Marianopolis College (2018-2020), Pure and Applied Sciences, DEC Sciences - Dean's List [2018] - Dean's List [2019]

Miscellaneous

- TechAccel Program Certificate issued by McGill Engine Centre [2023]
- Certified Empowered Startupper issued by Empowered Startups [2023]
- 1st Place at iPitch issued by JHKBA (Junior Hong Kong Business Association) [2023]
- 1st Place at McHacks 9th issued by HackMcGill [2022]
- Violinist
- Saxophonist
- Gundam Modelling
- Audiophile
- Coffee Enthusiast