Brenden Trieu brenden.trieu@gmail.com | (604)-897-8578 | LinkedIn | GitHub

Education

UNIVERSITY OF BRITISH COLUMBIA   **Sept 2018 – April 2023**
Bachelor of Arts – Computer Science Major – Co-Op Graduate
- Related coursework: Website Development, Databases, Project Management, Data Science, Parallel Computing, Software Engineering.

Experience

JUNIOR SOFTWARE DEVELOPER INTERNSHIP | *ATOMIC47*   **Sept 2021 – April 2022**
- Skillfully resolved 500+ critical issues in an Android communication app akin to Facebook, improving functionality, accelerating loading times, and enhancing overall app stability for a better user experience.
- Developed a REST API for displaying internal analytics, including user activity, to support data analysis and feature enhancements, leading to streamlined debugging processes.
- Collaborated with a team of three developers in an agile development structure over four months to overhaul the codebase of a communications app. This refactoring effort significantly reduced debugging time, now taking only half the previous duration.

TEACHING ASSISTANT | *UNIVERSITY OF BRITISH COLUMBIA*   **Sept 2020 – April 2023**
- Selected as one of 10 teaching assistants based on exceptional course performance, I conducted weekly teaching sessions that significantly improved students' understanding of the course content, leading to their academic excellence.
- Facilitated comprehensive learning experiences for 30-40 students across eight classes, covering Java and JavaScript, from fundamental concepts to the depths of Object-Oriented Programming, resulting in a stronger grasp of these languages and fostering a culture of innovation and coding excellence.

Projects

Bookworm: Bookstore Database Search Filter (PHP, JavaScript, jQuery, SQL)
- Independently developed a server-accessible, custom library website with advanced asynchronous SQL database queries for efficient book and author retrieval based on search criteria, demonstrating strong technical expertise and problem-solving skills.
- Autonomously executed a two-month solo project resulting in a refined product, showcasing strategic decision-making and dedication to continuous improvement.

Sport: Interactive Chatbot (Python)
- Created a Python-based sports conversation companion with real-time game scores and player stats, highlighting proficiency in Python and sports analytics.
- Independently integrated language translation and Wikipedia APIs for precise data retrieval support, demonstrating proficiency in API integration and data accuracy.
- Synchronized efforts with a highly skilled team of three developers to drive a successful two-month project, exemplifying exceptional teamwork and project management prowess.

Prism: Image Recognition (TypeScript, Python)
- Engineered a video parser and image recognition application, combining a React frontend and Django backend, empowering users to efficiently select and store images along with their timestamps in a CSV file, demonstrating proficiency in full-stack development and innovative problem-solving.
- Applied a machine learning algorithm to sort images based on their resemblance to a user-uploaded reference image in descending order, highlighting proficiency in API implementation.
- Collaborated on an eight-month, high-impact project with a dynamic team, showcasing teamwork, resilience, and advanced technical skills.

Skills

Java, JavaScript/TypeScript, Python, C, HTML, CSS, SQL, PHP, JSON, jQuery, React, Material UI, Ionic, Redux, Bootstrap, Django, GitHub, VS Code, Docker, Figma, Tableau, Unity