

Sam Zhu

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EDUCATION

University of Waterloo

Sept 2020 - Apr 2025

Honors Engineering, Computing, BAsC - GPA 3.7

- Relevant Coursework: Operating Systems, Programming for Performance, Computer Networks, Systems Programming and Concurrency, Data Structures and Algorithms, Control Systems

EXPERIENCE

Texada Software | Angular, .NET, Microsoft SQL Server

May 2024 - Aug 2024

Software Engineering Intern

- Provided effective incident support, and implemented solutions in sandbox and production environments which improved feature availability on customer facing dashboards
- Contributed to maintenance and new feature development across multiple .NET projects, consistently delivering 15% of the team's weekly output.
- Regularly developed stored procedures, conducted data migrations and wrote configuration scripts to support business logic, and enhance processing speed

AutoTrader | Angular, .NET Core, Microsoft SQL Server

May 2023 - Sept 2023

Software Architecture Intern

- Developed a new business application that improved data transfers between big query and salesforce marketing cloud which improved workflow efficiency for the sales team by over 80%
- Improved an internal management portal for documenting technologies, user applications, and project experts, improving usability and expanding functionality for end users.
- Presented an internal dashboard prototype with JIRA enhancements to assist the architecture team in improving workflow efficiency.

Shoplogix Inc | Typescript, Reactjs, .NET Core, Postgres

Sept 2022 - Dec 2022

Software Developer Intern

- Upgraded the analytics dashboard to optimize data display, and reduced page load time by over 50%
- Developed a custom feature that allows users to navigate 3+ years of archived data, which earned client praise for its intuitive design and functionality
- Implemented unit tests in jest to provide coverage for new changes resulting in a 10% increase in test coverage for the overall application

Westar Travel Ltd | VueJs, Spring/Springboot, MySQL

May 2021 - Aug 2021

IT Developer Intern

- Identified and fixed critical bugs in the payment process that improved performance for hundreds of users looking to purchase travel packages
- Implemented custom leaflet maps to estimate bus arrival times as a cost saving measure to Google maps
- Refactored OAuth and spring security code into separate containers and hosted project using AWS Beanstalk and RDS

PROJECTS

Smart Spacer - Asthma Management | Reactjs, React Native Expo, AWS

- Smart spacer is a physical device that provides support to kids with asthma by collecting detailed analytics to better inform physician's when they design their treatment plans
- Created two applications — a mobile app for parents which collects data over BLE from the physical device and a management portal for respiratory therapists
- Developed a serverless architecture in AWS for data processing and request handling

SKILLS

Languages: Javascript, Java, C#, SQL

Frameworks: Reactjs, React Native, Angular, .NET, Spring Boot

Tools: Github, AWS, Docker, Postman