Simon Zhou

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SKILLS

Languages: Java, JavaScript, Typescript, C, C++, Python, PHP, HTML, CSS, SQL
Frameworks: React.js, NodeJS, Next.js, NestJS, Symfony, Bootstrap, Express
Tools: Git, Docker, JetBrains, Visual Studio Code, PostgreSQL, Firebase, Postman

WORK EXPERIENCE

Junior Software Developer Co-op   Jan. 2022 – Jun. 2022
St. George's School, Vancouver

- Participated in the development of a comprehensive full-stack web application, accommodating thousands of users, and utilizing CSS/HTML, JavaScript, PHP, and Symfony
- Contributed to security enhancements, collaborated on frontend improvements, and played a role in the successful migration of legacy code to the new codebase
- Sustained the functionality of management, authentication, and financial reporting systems through the application of industry best practices and the implementation of object-oriented principles
- Developed integration, functional, and regression tests across the codebase, leveraging PHPUnit to ensure stability and reliability
- Delivered a presentation outlining potential resolutions for persistent storage challenges, emphasizing solutions to cost

TECHNICAL PROJECTS

Messaging Application   Jun. 2023 – Sept. 2023

- Developed a dynamic social media platform using contemporary web technologies including React, Nestjs, Nextjs, and Socket.io, delivering users an interactive and captivating messaging experience
- Incorporated passport-local and express-session to oversee user sessions, user authentication, and protected routes
- Built a resilient and flexible backend infrastructure with Nest.js and Docker, adhering to RESTful design principles to facilitate user authentication, message retrieval, and user profile management

Pokemon Database   Sept. 2022 – Nov. 2022

- Created a full-stack web application using PostgreSQL, Flask, and Vue.js in a group of three that displays a series of information of the game Pokemon whilst allowing users to create custom profiles
- Incorporated Azure as cloud data management Platform to allow developers to work on the most up-to-date database schema and utilize the most efficient workflow
- Minimized redundancy by applying normalization to database information and creating REST API calls to fetch data from database

Discord Bot   May. 2021 – Jul. 2022

- Developed a cloud-hosted Discord voice chat bot in Java, Maven, and Heroku, enabling users to seamlessly share and enjoy music within a unified platform
- Incorporated MongoDB to store public or personal music playlists for users to access a series of songs for future uses
- Developed a query system that listens to user input to execute commands from Discord's GUI

Course Searcher   Sept. 2021 – Dec. 2021

- Collaborated with a partner to create a full-stack project in Typescript that effectively searches and filters school courses
- Implemented a dynamic query processor that validate user's EBNF query using recursion and processes the logistics to an in-memory database
- Utilized Mocha and Chai to help with glass-box testing, smoke testing, and black-box to ensure accuracy and reliability

EDUCATION

University of British Columbia - Vancouver, BC   Sept. 2020 – Present
Bachelor of Science in Computer Science – 3.8 GPA   Expected Graduation date: December 2024