Ryan He

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TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, SQL, PHP, HTML/CSS
Frameworks and Libraries: React, Next.js, Node.js, jQuery, Jest, JUnit, TailwindCSS, Bootstrap, Numpy, Pandas
Developer Tools and Platforms: Git, MongoDB, MySQL, Firebase, AWS, Heroku, Postman, Linux

WORK EXPERIENCE

Incoming Software Engineer Intern   **Sep 2023 - Dec 2023**

Moneris   Vancouver, BC

Software Logistics Engineer | SAP Canada Inc.   **Sep 2021 - May 2022**

SAP   Vancouver, BC
- Successfully conducted system analysis, testing, and **debugging** to perform root cause analysis for Enterprise level Fortune 500 companies on a variety of operating systems, platforms, and databases
- Utilized support tools to drive efficiency and effectiveness in case management to achieve key performance indicators such as customer satisfaction, response time, and backlog management as an individual contributor
- Examined resource consumption in physical and **virtual environments** (VMware, PowerVM, etc) and optimized resource usage and response times, resulting in an average of **30%** decrease in response times
- Developed and maintained technical documentation for software systems, including user manuals, and technical specifications to the company's knowledge base

PROJECTS

Better Spotify | Spotify Web App Clone   **Jan 2023 - March 2023**

Spotify Web App Clone With Lyrics   Javascript | React.js | Node.js | Express.js
- Designed and developed a web application using **React**, React-Bootstrap, and Axios to provide users with a seamless music streaming experience
- Integrated react-spotify-web-playback and spotify-web-api-node **APIs** to fetch and play music, retrieve music metadata, and manage user authentication
- Created a backend server using **Express.js** to host protected resources and provide authentication

MEDMinder | Medicine Reminder App   **May 2022 - Sep 2022**

Android medicine reminder app for patients with dementia (PWD)   Java | SQLite | Github | Figma
- Led a team of 5 computer science students as the Software Development Team Lead
- Implemented code reviews on **GitHub** to maintain and improve code quality and integration by keeping track of version controls and avoiding merging conflicts
- Implemented multiple worker threads and coroutines to facilitate asynchronous programs and enhance user experience, resulting in a **35%** increase in app performance.

Multi-user Chat Room | Chat Room   **Apr 2020- May 2021**

Multi-threaded chat room to allow multiple users to connect and chat locally   C | UDP | asyncio API
- Facilitated communication between UNIX processes with **UDP protocol**, resulting in **50%** increase in efficiency
- Incorporated high-level asyncio APIs to work with coroutines and tasks
- Avoided **deadlock** using mutex locks to eliminate busy waits and inefficient allocation of CPU usage when idling, resulting in **35%** increase in performance

EDUCATION

Simon Fraser University - Bachelors of Science, Computer Science   **2019 - 2024 (Expected)**