Ryan He

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TECHNICAL SKILLS

Front End : React, Next.js, Javascript, TypeScript, Tailwind, NodeJS, Jest, JUnit, CSS, Styled-components, Figma
Back End : Java, Python, MongoDB, MySQL, Axios, Firebase, AWS, Heroku
Developer Tools : Git, npm, Linux, Agile Methodology

WORK EXPERIENCE

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

SAP subject matter expert for Enterprise level Fortune 500 companies   ABAP | SQL | VM | Linux | Windows

- 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
- Analyzed complex, real-world, unique problems in production environments and delivered 24/7 coverage for SAP customers around the world
- 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
- Provided **mentoring and technical training** for junior interns via one-on-one internal lectures, resulting in a **50%** faster onboarding for interns
- Collaborated with Engineering, Product Management & Operations teams to resolve bugs and missing product functionality for future releases, resulting in a **25%** decrease in customer complaints

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 project lead and advanced the project development
- Implemented code reviews on **GitHub** to maintain and improve code quality by keeping track of version controls and avoiding merging conflicts
- Redesigned a user-friendly user interface with Figma resulting in a **45%** increase in user satisfaction
- 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 communication 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)**