Yutong Zhu

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Skills

Languages	JavaScript/TypeScript, Python, SQL, C/C++, C#
Web	HTML/CSS, React, Next, Tailwind CSS, SASS, Node, Express, Flask
Database	MySQL, PostgreSQL, Prisma, SQL Server Management Studio
Testing	Cypress, Selenium, Jest
DevOps	Git, Github, Gitlab, AWS, Microsoft Azure, Vercel

Internship Experience

Tangam Systems - Waterloo, ON   **May 2024 – Aug 2024**
Quality Assurance Automation Developer - Cypress, JavaScript, SQL, SQL Server Management Studio
– Contributed to testing a comprehensive web-based management system through a combination of automation development and manual testing .
– Leveraged OOP(Page Object Models) to improve the readability and scalability of the automation suite code.
– Reduced the automation suite's run time by 12% by utilizing SQL to efficiently set up the testing environment.
– Performed daily maintenance and bug fixes on the automation suite, while actively seeking feedback from senior QAs during code reviews to enhance code quality.
– Actively involved in onboarding new Junior QAs by creating detailed documentations and holding 1-on-1 meetings.

AUAV Technology - Calgary, ON   **Sep 2023 – Dec 2023**
Software Developer - TypeScript, React, Node, Express, MySQL, AWS
– Designed and developed a SaaS web-based platform for online examinations using full-stack technologies.
– Managed a user base of over 50 paying customers, implementing bug fixes and performance enhancements based on their feedback.
– Incorporated features such as user account creation, authentication, email verification, payment processing, content management, and online examinations with various user permissions.
– Deployed the product using an AWS EC2 virtual machine, AWS RDS for the database, and Nginx for web server management.
– Initiated and developed an automated deployment process using AWS CodeDeploy and GitHub, eliminating manual tasks.

Other Experience

NiShang Club - London, ON   **May 2024 – Ongoing**
Web Development Team Lead - Next, TypeScript, Prisma, PostgreSQL, Vercel, Express, SocketIO
– Managed a team of 6 to create a full-stack web application that provides booking services, and user communication services.
– Implemented pages using Next.js and TailwindCSS in alignment with Figma designs, collaborating closely with the UI designer.
– Developed an Express server specifically for web socket communication between administration and customers.
– Facilitated weekly meetings to discuss progress and distributed tasks to team members, ensuring efficient workflow and project alignment.

Waterloo Aerial Robotic Group - Waterloo, ON   **June 2024 – Ongoing**
Embedded Flight Software Team Member - STM32, C/C++
– Participated in validating embedded functionalities, including reading from and writing to a USB flash drive.

Education

University of Waterloo
Computer Engineering
Relevant Courses: Systems Programming and Concurrency, Data Structure and Algorithm, Digital Computation, Digital Computer

Projects

typescript-eslint
– Implemented bug fixes in typescript-eslint, supporting its user base of 13 million on GitHub.
– Actively responded to inquiries and performed thorough code reviews.
– Wrote unit tests to achieve 100% test coverage and ensure project stability.
– Enhanced understanding of TypeScript while contributing to code quality and standards improvement.
– Enhanced the ability to analyze and understand large, technically complex projects.