Jason Liu

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EDUCATION

University of Waterloo   Waterloo, ON
Candidate for Bachelor of Applied Science in Computer Engineering, Honours, Co-op   *Sept. 2022 - Present*
Relevant Courses: Algorithms & Data Structures, Real-Time Operating Systems, Digital Hardware Systems, Systems Programming & Concurrency

TECHNICAL SKILLS

Languages: Python, Java, C/C++, HTML, CSS, TypeScript, JavaScript
Frameworks/Libraries: Bootstrap, React.js, Node.js, Playwright, Spring Boot
Tools: GitHub, Git, Visual Studio Code, IntelliJ, Microsoft Office, Excel, Jira, Apache JMeter, PostgreSQL, GCP, Terraform, Hoppscotch

EXPERIENCE

Software Engineering Intern   Jan. 2025 - Apr. 2025
Ford Pro   *Oakville, ON*
- Automated a GitHub Dependabot-Jira workflow that created tickets for **10+ repositories**, reducing manual tracking effort by **80%** and ensuring timely dependency updates across the team.
- Developed front-end features using **React.js**, adding **4 new dynamic fields** to the schema editor and improving internal workflow efficiency for **10+ developers**.
- Built and executed **10+ functional test scripts** in **Hoppscotch** to validate email service API endpoints, helping reduce email delivery bugs by **30%** during regression cycles.
- Updated and optimized **3 OpenTelemetry Terraform modules**, contributing to a **25%** improvement in observability setup time across staging and production environments.

Software Quality Assurance Engineering Intern   May. 2024 - Aug. 2024
AlertDriving   *Toronto, ON*
- Utilized **Jira** to report, track and monitor application progress ensuring streamlined communication and productivity between QA, development, and BA teams to resolve application bugs promptly.
- Identified, documented, and **reported 150+ critical bugs** during manual and regression testing, providing detailed descriptions, reproducible steps, and screenshots to expedite development.
- Verified data accuracy and integrity in **PostgreSQL** databases using **DBeaver**, ensuring back-end processes align with application requirements.
- Simulated user interactions and populated test data using **Apache JMeter** providing realistic testing scenarios and ensuring comprehensive test coverage for application functionality.

IT QA Assistant   Sept. 2023 - Dec. 2023
Ontario Ministry of Education   *Toronto, ON*
- Developed and implemented features and content of the EFIS 2.0 board user guide into a web page using **HTML** and **CSS**.
- Optimized web page loading using **HTML** and **JavaScript** resulting in a **95%** reduction in load times.
- Processed over **100+** user access requests and role updates in EFIS 2.0 software.
- Resolved **250+ IT-related issues** regarding the EFIS 2.0 software, resulting in a more streamlined experience for municipal, First Nations, and school board users.

PROJECTS

Personal Portfolio Website ⦿ | *React.js, CSS*   May. 2024
- Developed a responsive and visually appealing portfolio website using **React.js** and **CSS**, ensuring seamless user experience across various devices.
- Implemented dark mode functionality with **React.js** and **CSS**, providing users with an alternative viewing option tailored to their preferences.
- Enhanced user engagement by integrating interactive features such as hover effects, smooth scrolling, and responsive animations, resulting in an intuitive and visually captivating navigation.