KYLE TRAN

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Education

University of Ottawa **Expected Graduation – December 2026**
Honours Bachelor of Computer Science *Ottawa, ON*
Relevant Courses: Data Structures and Algorithms, Object-oriented and Functional Programming, System Design

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C/C#, SQL/PostgreSQL, HTML, CSS, Dart
Frameworks/Libraries: Selenium, Playwright, React, Spring Boot, Bootstrap, Flutter, JUnit
Tools: Azure DevOps, Postman, MySQL/NoSQL, Chrome DevTools, Node.js, Git, GitHub, TestComplete, Android Studio, Godot, Visual Studio Code, TestRail, Figma
Other Skills: Manual and Automated Testing, Debugging, API testing, Web Development, Accessibility, Documentation

Work Experience

Software QA Tester | JSI Telecom **Jan 2025 – Present**
- Designed and managed test cases and test runs in **TestRail**, ensuring complete coverage of **regression, functional,** and **edge-case** scenarios, while validating data parsed in multiple formats (**HTML, CSV, XML, ZIP, YAML**) to comply with business requirements and customer expectations.
- Automated **UI** and **E2E** test scripts for over **20** plugins using **TestComplete (C#)**, utilizing **debugging techniques** such as inspecting local variables, watch expressions, and error logs to identify and resolve issues.
- Logged and tracked defects in **Azure DevOps**, providing technical context (stack traces, affected domains, reproducible steps) maintaining **100% traceability** for efficient bug resolution by developers.
- Collaborated with product owners and development teams to define and review **acceptance criteria**, ensuring full **test coverage** and alignment with feature specs and system requirements throughout the development life cycle.

Software Test Analyst | Employment and Social Development Canada **May 2024 – December 2024**
- Conduct both **manual** and **automated** testing to ensure coverage and execution of software quality and application performances, utilizing testing tools such as **Postman** for **API** requests and **JSON** responses.
- Evaluated over **700** test cases using various testing practices, including **black-box**, **integration**, **path coverage**, and **end-to-end** testing, ensuring the application consistently met all its specified requirements.
- Monitored **test** runs and conducted detailed reviews, while collaborating with both **development** and **quality assurance** teams in an agile **DevOps** environment, adhering to deployment and project life-cycle practices.
- Verified data exchange between **client-server** processes, documenting bugs, parameter values and **SQL** query results to establish application limits.

Web QA Tester | Department Of Justice Canada **January 2024 – April 2024**
- Specialized in code **debugging** while documenting errors within **Azure DevOps**, thus enhancing code quality, user accessibility and minimizing launch issues for web page deployment.
- Produced and inspected the **DOM** using **JavaScript** code to optimize web access navigation to be easily understandable, complying with **WCAG** and **WAI** guidelines for industry best practices.
- Ensured universal web accessibility through **automated** testing protocols to inspect **HTML/CSS** structure and style application, utilizing **Chrome Developer Tools** such as **Lighthouse** and **axe** across **300** sites to enforce higher testing standards.

Projects

Fordward EV Tracker | uOttaHack6 | *Flutter, Dart, Python, Flask, Google Play Services, Firebase, Android Studio*
- Created a mobile application with **Flutter** and **Dart**, using a widget-based architecture to ensure a smooth and easy design, optimized for seamless interaction on the go.
- Incorporated automotive features like electric vehicle journey planning by leveraging **Google APIs** and **Python** scripts to provide real-time mapping and optimize routes based on battery efficiency levels.
- Employed backend integration with **Firebase** and **REST endpoints** powered by **Flask** to connect and synchronize user settings and preferences onto the app's dashboard.

SRND Audio Processing Studio | *MongoDB, ExpressJS, React, Node.js, TypeScript*
- Developed a **MERN**-based application to enable real-time audio manipulation directly in the browser, using the **Web Audio API** to provide playback speed, reverb space and pitch changes allowing for a creative user listening experience.
- Utilized **MongoDB** for a **NoSQL** database management system to store user files and account details