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, Database Management Systems, World Wide Web Techniques and Standards

Technical Skills

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

Work Experience

Software QA Tester | JSI Telecom   **January 2025 – April 2025**

- Designed and managed test cases and test runs in **TestRail**, ensuring complete coverage of **regression**, **functional**, **sanity**, and **edge-case** scenarios across **Kubernetes**-hosted domains and clusters.
- Executed automated **UI** and **E2E** test scripts for plugins using **TestComplete (C#)**, applying **debugging** methods such as setting breakpoints, watch variables/expressions and reviewing error logs to identify and resolve test failures.
- 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 using **Behavior-Driven Development (BDD)** methodologies, ensuring full alignment with business requirements and customer expectations.
- Performed manual and automated validation as part of **ETL** workflows for data ingested via file-based inputs and **RESTful API** requests, ensuring over **90%** accuracy in ingestion and rendering of parsed formats (**HTML, CSV, XML, ZIP, YAML**) within a law-enforcement intelligence platform.

Software Test Analyst | Employment and Social Development Canada   **May 2024 – December 2024**

- Conducted 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.