KYLE TRAN

✉ kylekhai04@gmail.com   in linkedin.com/in/kylekhaitran/   ⚙ github.com/KYLEKHAI   🌐 website/kylekhai.com
📞 613-501-6672

Education

University of Ottawa   **Expected Graduation – April 2027**
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 Standards, Networking, Operating Systems

Technical Skills

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

Work Experience

Software Developer | Magnet Forensics   **September 2025 – December 2025**
- Contributed to the Agent Automation Team, deploying **C# .NET** software agents across client systems and **AWS cloud environments**, implementing **queuing and routing algorithms** to enable efficient forensic data collection.
- Executed **xUnit** unit tests for agent modules, integrating **logging** and **exception handling** to reduce runtime errors and improve code reliability.
- Developed **PowerShell** scripts for automated configuration and monitoring of agents to validate **API interactions** and **ETL workflows**, leveraging **Git** for version control and collaborative development.

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.

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.
- 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**
- 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.