




# KYLE TRAN

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## Education

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### 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

## Work Experience

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### Software Automation Engineer | RBC

January 2026 - Present

- Mobile applications and GenAI Chatbot - Java, Python, TypeScript, Appium, Jenkins

### Software Engineer | Magnet Forensics

September 2025 - December 2025

- Deployed **C# .NET** agents into **AWS cloud environments** utilizing queuing logic for S3 multipart upload algorithms, accelerating data transfer speed by **50%**.
- Executed bug fixes and maintained **xUnit** unit tests for agent modules, integrating **logging** and **exception handling** to reduce runtime errors by over **95%**.
- Developed **Python** and **Jenkinsfile (Groovy)** pipelines to automate configuration and validate **CI/CD** deployments within **ETL** workflows, leveraging **Git** for collaborative development.
- Built multi-OS endpoint frameworks for artifact collection across **Windows, macOS, and Linux** systems, utilizing **Unix** and **PowerShell** scripting to manage system-level dependencies.
- Optimized **client-server** interaction and **API** security through performance monitoring, employing **Docker** for scalability testing, and validating **HTTPS** traffic integrity via **Charles Proxy**.

### Software QA Engineer | 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 and reviewing error logs to identify and resolve test failures.

### 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 performance, utilizing testing tools such as **Postman** for **API** requests and **JSON** responses.
- Validated data exchange between client applications and databases, evaluating parameter values and **SQL** query results to ensure consistent business logic.

### Software QA Engineer (Web) | Department Of Justice Canada

January 2024 - April 2024

- Produced and inspected the **DOM** using **JavaScript** code to optimize web navigation and improve usability, complying with **WCAG** and **WAI** guidelines for industry best practices.
- Ensured universal web accessibility through **automated** testing protocols to inspect **HTML/CSS** structure and styling, utilizing **Chrome Developer Tools** such as **Lighthouse** and **axe** across **300** sites to enforce higher testing standards.

## Projects

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### What The Tech | uOttaHack 8 | *TypeScript, Next.js, React, Zustand, PostgreSQL, Google Gemini API, OpenRouter*

- Developed an **AI-powered SaaS** platform using **TypeScript, Next.js, and Supabase (PostgreSQL)** that ingests **GitHub** repositories, transforms codebases into structured **XML** context, and supports **Google Gemini**-powered conversations and visual diagrams grounded in repository data.

### Ford EV Tracker | uOttaHack6 | *Flutter, Dart, Python, Flask, Google Play Services, Firebase, Android Studio*

- Developed a **Flutter/Dart** mobile app for EV journey planning with real-time route optimization using **Google APIs** and integrating a **Flask/Firebase** backend to sync **8+** user settings and deliver a smooth, interactive dashboard experience.

## Technical Skills

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**Languages:** C#, Python, Java, JavaScript, TypeScript, C, SQL, PostgreSQL, HTML, CSS, Groovy, Dart

**Frameworks/Libraries:** .NET, xUnit, Selenium, Playwright, React, Spring Boot, Bootstrap, Flutter, JUnit

**Tools:** Jira, AWS, Docker, Git Bash, PowerShell, Linux, 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, AI-assisted development, Web development, Accessibility, Documentation