Alexander Odorico

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Education

York University   Sept 2021 - April 2026
Bachelor of Science, Honors Computer Science   *Toronto, ON*
GPA: 3.8
Teaching Assistant: Web-Centric Programming
Relevant Courses: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Software Design, Computer Networks

Experience

QA Automation Engineer Co-op   Sept 2024 – April 2025
Score Media and Gaming Inc.   *Toronto, ON*
- Enhanced test coverage across **iOS**, **Android**, and **Web** platforms, leveraging **Kotlin** and **Selenium** to create comprehensive, automated test cases for theScoreBet and ESPNBet applications.
- Identified **40+** test failures during regression periods, reported and resolved failures using root cause analysis, and implemented solutions, **increasing** the **average pass rate** by **15%**.
- Excelled in an **Agile** development cycle, leveraging **Jira** for efficient feature tracking, and utilizing **Jenkins** to monitor tests and streamline **CI/CD** pipelines.

Tutor   July 2022 – Sept 2022
Pham Learning   *Toronto, ON*
- **Tutored 30+** students in total, reinforcing fundamental skills in **science** and **mathematics**.
- Designed and instructed a weekly beginner's **Python** course, teaching programming to 5 students.
- Employed different mediums and online classroom tools to demonstrate beginner coding concepts.

Projects

Full-Stack Transit Web App | *JavaScript, TypeScript, React, Express.js, PostgreSQL, AWS, Docker*
- Developed a real-time TTC vehicle tracking system using **PostGIS**, **Google Maps API**, and **React**, providing users live transit updates from a **REST API**.
- Engineered a bus route **search engine** utilizing advanced **PostgreSQL** features, including **indexing**, resulting in a **45%** improvement in query performance.
- Leveraged **Express.js**, **JWT**, and **server-side cookies** to create a secure authentication flow.
- Hosted the application with an **AWS EC2 instance**, using **Docker** for streamlined deployment.

Java Swing Library App | *Java, Maven, JUnit, Spring, MySQL, Azure*
- Led the design of a modular **MVC** architecture, adhering to **SOLID** principles and incorporating **4 design patterns**.
- Built a robust backend with **Spring Boot** and **MySQL**, integrating seamlessly with a **Java Swing** GUI.
- Collaborated with a 4-member team using **Maven** and **Git**, facilitating synchronized development.
- Ensured reliability by writing **unit tests** and **end-to-end tests** with **JUnit**, achieving **92%** code coverage.

Anime Search Bot | *JavaScript, TypeScript, Node.js, GraphQL, Redis, Docker*
- Developed a feature-rich Discord bot in **Node.js**, integrating with a **GraphQL API** for dynamic search functionality.
- Implemented the **OAuth 2.0** protocol using **NGINX**, **Cloudflare CDN**, and **Redis** for a protected authorization system.
- Deployed the bot on a Raspberry Pi, using **Docker Compose** to orchestrate a multi-service system, supporting scalability and portability.

Skills

Languages: Java, JavaScript, TypeScript, C, C++, Python, Kotlin, HTML, CSS, Bash
Frameworks: React, Node.js, Express.js, Spring Boot, Flask, Selenium, JUnit, GraphQL
Databases: MySQL, PostgreSQL, Redis, MongoDB
Developer Tools: Git, GitHub, Maven, AWS, Google Cloud, Azure, Docker, Jenkins, Postman