Alexander Odorico

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EDUCATION

York University   Sept 2021 - April 2026
Bachelor of Science, Honors Computer Science   *Toronto, ON*
GPA: 3.8

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
theScore   *Toronto, ON*
- Enhanced test coverage across iOS, Android, and Web platforms within an **Agile** development cycle, leveraging **Kotlin**, **Selenium**, and **Cucumber** to design and implement comprehensive test cases.
- Strengthened QA efforts by analyzing, reporting, and resolving test failures during regression cycles, contributing to improved software stability and reliability.
- Utilized **Jira** for efficient defect lifecycle managment with **Jenkins** for **continuous integration**.

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*
- Utilized **Axios** to gather live TTC vehicle locations from a **REST API** with **PostGIS**, **Google Maps API**, and **React** to visualize the data.
- Built a **RESTful** backend in **Express.js**, implementing **20+** endpoints including **CRUD** actions.
- Leveraged **PostgreSQL**, **JWT** tokens, and **server-side cookies** to create a secure authentication flow.
- Hosted the application with an **EC2** Ubuntu instance on **AWS**.

Java Swing Library App | *Java, Maven, JUnit, Spring, MySQL, Azure*
- Led the creation of an **MVC** architecture, incorporating over **4 design patterns** to adhere to **SOLID** design principles.
- Designed a robust backend with **Spring Boot** and **MySQL**, seamlessly integrating with a **Java Swing** frontend.
- Incorporated **Maven** and **Git** to synchronize development among a 4-person team.
- Wrote **unit tests** and **end-to-end tests** with **JUnit**, achieving **90%+** line coverage.

Anime Search Bot | *JavaScript, Node.js, Express.js, Redis*
- Developed a comprehensive Discord bot in Node.js that integrates with the MyAnimeList.net REST API.
- Implemented the **OAuth2.0 protocol** using Express.js and Redis, creating a secure authorization system.
- Hosted the Bot on a Raspberry Pi 4 with an **Apache HTTP Server**.

Android Sudoku App | *Java, Android, Gradle, JUnit*
- Produced an **Android application** with a playable sudoku interface within a 4-person team.
- Connected the app to a **REST API** to gather boards of different difficulty levels.
- Implemented a **back-tracking algorithm** for board solving with a visualization feature.

SKILLS

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