

Alexander Odorico

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EDUCATION

York University

Bachelor of Science, Honors Computer Science

Sept 2021 - Dec 2026 (expected)

Toronto, On

GPA: 3.8/4.0

Relevant Course Work: Data Structures and Algorithms, Object-Oriented Programming, UI/UX Design, Database Management Systems, Software Design, SDLC, Operating Systems, Computer Networking

EXPERIENCE

SEO Strategist

VFC | CanAge

May 2023 – June 2023

Toronto, On

- Developed an SEO strategy for an assigned business as part of a 60 hour project.
- Used MOZ and Google Analytics to write a strategy report tailored to the company's needs.
- Created a prototype with HTML and CSS to demonstrate Semantic SEO by using site metadata.

Tutor

Pham Learning

July 2022 – Sept 2022

Toronto, On

- Tutored 40+ students in total, reinforcing fundamental skills in science and mathematics.
- Designed and instructed a weekly beginner's Python course, teaching programming to a group of 5 students.
- Employed different mediums and online classroom tools to demonstrate beginner coding concepts.
- Helped students individually with homework, and reported progress with the employer.

PROJECTS

Full-Stack Transit Web App | JavaScript, TypeScript, React, Express.js, PostgreSQL, AWS

- Utilized Axios to gather live TTC vehicle location data from a REST API, and integrated it with the Google Maps API and React to present the information to users.
- 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 (Elastic Compute Cloud) Ubuntu instance on AWS.

Java Swing Library App | Java, Maven, JUnit, Spring, MySQL, Azure

- Created an MVC architecture, incorporating over 4 design patterns to adhere to SOLID design principles.
- Deployed a backend service built in Spring Boot with CRUD actions on a MySQL database. Connected the backend to a Java Swing frontend. Implemented multithreading to create a responsive GUI.
- Used Maven and Git to coordinate 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 to collect access tokens.
- Cached user data and access tokens with Redis, creating a secure authorization system.
- Hosted the Bot on a Raspberry Pi 4 and an Apache HTTP Server.

Android Sudoku App | Java, Android, Gradle, JUnit

- Made an Android application with a playable sudoku interface in 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.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C, C++, C#, HTML, CSS, Bash

Frameworks: React, Node.js, Express.js, Spring Boot, Flask, Bootstrap, JUnit

Databases: MySQL, PostgreSQL, Redis, MongoDB

Developer Tools: Git, Linux, Windows, Maven, Gradle, Google Cloud, AWS, Azure, Docker, Postman