

# Alexander Odorico

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## EDUCATION

### York University

Bachelor of Science, Honors Computer Science

Sept. 2021 - Apr. 2025

Toronto, On

GPA: 3.8/4.0

**Relevant Course Work:** Data Structures and Algorithms, Object-Oriented Programming, Waterfall Development Cycle, Agile Development Cycle, UI/UX Design, CI/CD pipeline, Design Patterns, Database Management Systems, Operating Systems

## TECHNICAL SKILLS

**Languages:** C/C++, C#, Java, Python, JavaScript, TypeScript, HTML/CSS, MySQL/PostgreSQL, Bash

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

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

## PROJECTS

### TTC Tracker | React, TypeScript, Node.js, Express.js, PostgreSQL, Bootstrap, AWS

- Built a web application with a **RESTful** backend in **Express.js**, implementing **20+** routes including **CRUD** actions.
- Leveraged **PostgreSQL** and **JWT** tokens with server-side **cookies** to create a secure **authentication** flow.
- Used **Axios** to collect a live feed of TTC vehicle locations from a **REST API**. Displayed this info to the user with the **Google Maps API** and responsive **React** components. Cached paid requests, reducing monthly costs by **42%**.
- Hosted the application with an **EC2** (Elastic Compute Cloud) **Ubuntu** instance on **AWS**.

### YorkU Library System | Java, Spring, MySQL, Azure, Maven, JUnit

- Deployed a backend service built in **Spring** with **CRUD** actions on a **MySQL** database. Connected the backend to a **Java Swing** app, using **threads** to create a responsive **GUI** solution as an **MVC** architecture.
- Used **Maven** and **Git** to coordinate the development of software among a **4-person team**.
- Created a **clean architecture**, incorporating over **6 design patterns** to adhere to **SOLID** design principles.
- Tested the app with **JUnit** using **end to end testing** and **integration testing**, achieving **90%+** line coverage.

### MyAniBot | Node.js, Express.js, Redis

- Developed a fully-featured Discord bot in **Node.js** with a user **search history** system.
- Made asynchronous **API** calls to access the MyAnimeList.net database.
- 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.

### Sudoku Prime | Java, Android, Gradle, JUnit

- Produced an **Android** application with a playable sudoku interface in a **4-person team**.
- Helped the team by creating **JUnit** tests. Used **debugging** software to efficiently troubleshoot errors.
- Connected the app to an **API** to gather boards of different difficulty levels.
- Implemented a **back-tracking** algorithm for board solving with a visualization feature.

## EXPERIENCE

### SEO Strategist Intrapreneurship

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** tools on a weekly basis.
- Created a site prototype to demonstrate **Semantic SEO** by leveraging site metadata.

### Tutor

Pham Learning

July 2022 – Sept. 2022

Toronto, On

- **Tutored** students grades 9-12 in science and mathematics.
- Assigned the responsibility of creating a **Python** beginner's course, teaching **5 students** weekly.
- Employed different mediums to demonstrate basic coding concepts and sought feedback from the employer to improve students' experiences.