

Oditha Amarasinghe

416-858-9496 | ogamaras@uwaterloo.ca | Github | Personal Site

OBJECTIVE

An aspiring software engineer seeking opportunities to leverage technical skills and creativity to design impactful tools that simplify and improve people's lives.

TECHNICAL SKILLS

Languages: JavaScript, C/C++, Python, HTML/CSS, LINQ

Technologies and Frameworks: React.js, Bootstrap, Node.js, Git, Devo

WORK EXPERIENCE

Machine Learning Engineer

Jan 2023 – Present

HealthCare Systems R&A | Python, Sklearn, SciKit

GTA, ON

- Developed a **visually interactive game** utilizing a machine learning model trained to classify user movements, resulting in the achievement of a **project milestone** two weeks ahead of schedule.
- Implemented an algorithm for extracting and evaluating a set of new data features, resulting in a significant **improvement in classification accuracy**.
- Trained, and evaluated a **neural network** leveraging discrete wavelet features, resulting in **improved classification accuracy**.
- Efficiently resolved issues in a convolutional neural network, significantly accelerating workflow for other engineers.

Data Engineer

May 2022 – Sept 2022

Manulife | Python, Devo, LINQ, SQL

GTA, ON

- Leveraged the **Devo Platform** to efficiently filter and clean large data logs, resulting in a 10% reduction in system alerts.
- Designed and implemented an **automation tool** for seamless data transfer between **AWS S3** and **Azure Blob storage**, ensuring the safety of archived data.
- Significantly boosted the performance of the Devo platform by **30%** through optimized **LINQ scripting**.
- Successfully collaborated with cross-functional teams situated internationally to resolve troubleshooting issues with the Devo platform.

PROJECTS

Personal Portfolio | *React.js, CSS, Spotify API* | odis43.github.io/Oditha/

Feb 2023

- Developed a personal portfolio website using **React-js**, and **CSS**, which takes the form of a Spotify artist page.
- Generated and employed custom **JSON** files in conjunction with the Spotify API to display an interactive "song of the day" within the website.
- Leveraged React **useState** hooks for smooth website navigation and improved UX, allowing for a seamless user experience.

Drawdle | *React.js, Bootstrap, REST API* | drawdle.vercel.app/

April 2022

- Spearheaded the development of a full-stack web application incorporating **React** and **Node.js**, featuring the **BLIP API** for advanced image captioning.
- Leveraged **React class** and **function based components** to enhance the user experience through interactive hovering events.
- Utilized **VS Code** efficiently for seamless asynchronous task management and harnessed **Github** for collaborative project management.

EDUCATION

University of Waterloo

Sept. 2021 – April 2026

Candidate for Honours Bachelor of Computer Science, Business Specialization

Waterloo, ON

- BU111 Live Case Competition - 1st place (from 1500 students)
- Object Oriented Software Development, Elementary Algorithm Design and Data Abstraction