

# Oditha Amarasinghe

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

## OBJECTIVE

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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

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

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

## WORK EXPERIENCE

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### 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

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### Personal Portfolio | *React.js, CSS, Spotify API* | [odis43.github.io/Oditha/](https://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/](https://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

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### 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