

# Nadeem Said

COMPUTER ENGINEERING · VARSITY/NATIONAL SWIMMER

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## Skills

- **Languages & Vital Libraries:** Python, C++, C#, C, JS,  $\text{\LaTeX}$ , HTML, EF Core, ASP.NET, Blazor, LINQ, TensorFlow, PyTorch, OpenCV, PIL
- **Technologies:** Visual Studio, JupyterNotebook, Anaconda, Telerik, Postman, SSMS, PostgreSQL, Azure, GIT, RESTful API, Quartus Prime, autoCAD
- Fluent in **English and Arabic**. Beginner in **French**

## Work Experience

### Lakes Environmental Software

Waterloo (ON), Canada

A.I. AND DATA ENGINEER

May 2023 - Aug. 2023

- **Engineered** a MVP **deforestation detection system**, employing a **PyTorch CNN LSTM AI model**, integrated with Flask for **user-intuitive result visualization**
- Utilized TensorFlow and Keras **neural network & deep learning models** for land cover change detection with **Landsat & Sentinel** satellite data
- Employed **GIS-powered Python workflows integrating GDAL** to download, preprocess, & analyze satellite imagery for environmental monitoring
- Conducted research on **land cover usage change, deforestation, & climate change** using **remote sensing & AI techniques**

### Lakes Environmental Software

Waterloo (ON), Canada

SOFTWARE DEVELOPER

Sept. 2022 - Dec. 2022

- Worked in **Python (different libraries)** to analyze & present **geospatial data**. Wrote programs using **satellite imagery** to help farmers in **vegetation planning**
- Optimized internal web application tools speed **by 200%** using **C#** to read over a year worth of weather data captured hourly
- Built a **CLI tool** that runs a section of the application when requested to **enhance** all company application performances **at deployment**
- Improved **application security** by preventing potential **open redirect vulnerabilities** and **CSRF attacks**

### SEH Computer Systems Inc.

Tavistock (ON), Canada

FULL STACK DEVELOPER

Jan. 2022 - Apr. 2022

- Engaged in multiple **agile-supported** sprint ceremonies such as review, retro, refinement, planning to meet **user centric needs**
- Worked with **Microsoft Stack** (ASP.NET, EF Core, C#) from the **SQL DB** to the **UI end**, gaining experience in API, UI, and testing on both ends to develop a **Vehicle Insurance Web App**
- **Redesigned** UI pages to enhance **user experience** following **discussions** with the **UI/UX Team**

## Key Projects

### Dolphin Chains HR Solutions

[HTTPS://DEVPOST.COM/SOFTWARE/DOLPHIN-CHAINS-HR-SOLUTIONS](https://devpost.com/software/dolphin-chains-hr-solutions)

- Developed DCHRS, a **decentralized HR platform leveraging blockchain** for secure and cost-effective document management, empowering companies
- Overcame integration challenges, gaining **deep blockchain expertise** through collaboration with industry leaders, enabling scalable & efficient HR solutions

### Personal Website

[HTTPS://GITHUB.COM/NADEEMSAID/PERSONAL-WEBSITE](https://github.com/nadeemsaid/personal-website)

- A personal website developed with **Python (Streamlit, Pillow)** to promote myself and **connect with people**

### Waterloo Minesweeper Game

[HTTPS://GITHUB.COM/NADEEMSAID/WATERLOO-MINESWEEPER-GAME](https://github.com/nadeemsaid/waterloo-minesweeper-game)

- **Programmed using C++**, a unique version of **Minesweeper**, adapted to specifically fit the campus environment of the University of Waterloo
- Implemented **search algorithms** to check and update game status
- Generated and managed a board using the **array data structure** with **bit-shifting** and **masking**

### My Store

[HTTPS://GITHUB.COM/NADEEMSAID/MY-STORE](https://github.com/nadeemsaid/my-store)

- A Web Application developed with **C#, SQL Server Database and HTML**. Allows users to enter **personalized information** into the DB
- The app allows **CRUD operations on entries**

## Honours & Awards

2023	<b>Jackal Protocol First Place Award</b> , <u>OlympiHacks (Waterloo Blockchain Olympics) Hackathon</u>	Waterloo, Canada
2023	<b>3X USPORTS Academic All-Canadian</b> , USPORTS Academic Award for top student-athlete academic achievers	Waterloo, Canada
2020	<b>Athletic Award</b> , <u>Board of Trustees Award for Distinguished Representation of Jordan</u>	Amman, Jordan
2019	<b>Academic Award</b> , Awarded by PSUT for being one of the top 100 academic achievers in the Jordan in 2019	Amman, Jordan
2017	<b>Silver &amp; Bronze Medalist</b> , 200m & 100m backstroke - Stuttgart International Swimming Championships	Stuttgart, Germany

## Education

### University of Waterloo

Waterloo, Canada

B.A.Sc. IN COMPUTER ENGINEERING

Sept. 2020 - Apr. 2025

- Varsity Swimmer on the Waterloo Warriors Swim Team, balancing school with 17+ hours of training/week