

# Nadeem Said

COMPUTER ENGINEERING · VARSITY/NATIONAL TEAM SWIMMER

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## Education

### University of Waterloo - B.A.Sc. in Computer Engineering

*Waterloo (ON), Canada*

Varsity Swimmer on the Waterloo Warriors Swim Team, Balancing School with 17+ hours of training/week

*Sept. 2020 - Apr. 2025*

## Skills

- **Languages & Vital Libraries:** Python, C++, C#, C, JS, SQL, LaTeX, HTML, PyTorch, TensorFlow, Langchain, OpenCV, PIL, EF Core, ASP.NET
- **Technologies:** Visual Studio, Jupyter Notebook, Anaconda, Postman, SSMS, PostgreSQL, Docker, Azure, GIT, RESTful API

## Work Experience

### Tauria

*Waterloo (ON), Canada*

MACHINE LEARNING ENGINEER

*Jan. 2024 - Apr. 2024*

- **Engineered & launched QUIN**, an advanced **AI-driven SaaS chatbot surpassing GPT4 capabilities in emergency response**, using Python, OpenAI, & LLMs
- **Architected** a comprehensive **Web App** for QUIN including a **trained DNN, report generation, and database management**, featuring **robust security measures**, including **user authentication** and **encrypted chat histories**, along with **seamless API integrations** to ensure scalability and operational efficiency
- **Led the complete design and implementation** of an intuitive **UI/UX**, leveraging sophisticated **DNS management** for effective **application deployment**
- **Designed & refined** a specialized dataset for the **fine-tuning** process of the GPT-4 model to deliver superior performance tailored to **specific business needs**

### 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

### ChatRiley the Recruiter

<https://github.com/nadeemsaid/resume-chatbot-llm>

- Developed and deployed **Riley**, a **resume chatbot** powered by **LLMs and AI**, utilizing **embeddings, vector databases** and **proximity vectors** for professional and personalized responses to user queries
- Integrated OpenAI's **GPT-4** technology, enabling seamless **context-aware** question answering, enhancing recruiter interactions with uploaded resumes

### 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

### My Store

<https://github.com/nadeemsaid/my-store>

- A WebApp developed with **C#, SQL Server Database and HTML**. Allows users to enter **personalized info** into the DB with **CRUD operations on entries**

## Honours & Awards

2024 **4X USPORTS Academic All-Canadian**, USPORTS Academic Award for top student-athlete academic achievers

*Waterloo, Canada*

2023 **Jackal Protocol First Place Award**, [OlympiHacks \(Waterloo Blockchain Olympics\) Hackathon](#)

*Waterloo, Canada*

2020 **Athletic Award**, [Board of Trustees Award for Distinguished Representation of Jordan](#)

*Amman, Jordan*

2019 **Academic Award**, Awarded by PSUT for being one of the top 100 academic achievers in the Jordan in 2019

*Amman, Jordan*

2017 **Silver & Bronze Medalist**, 200m & 100m backstroke - Stuttgart International Swimming Championships

*Stuttgart, Germany*