🌐 https://nadeem-said.onrender.com/

Nadeem **Said**

COMPUTER ENGINEERING · VARSITY/NATIONAL TEAM SWIMMER

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Skills

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

Work Experience

Tauria   *Waterloo (ON), Canada*
MACHINE LEARNING ENGINEER   *Jan. 2024 - Apr. 2024*

- Developed and implemented an AI-powered chatbot utilizing Python, OpenAI, **LLMs**, and other models to enhance communication within Tauria's platform
- Designed and deployed a secure web application with user authentication, persistent chat history, and API integration, optimizing for efficiency and scalability
- Spearheaded end-to-end development of the UI/UX, ensuring seamless user experience and leveraging advanced routing/**DNS** knowledge for deployment

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 **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 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

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*

Education

University of Waterloo - B.A.Sc. in Computer Engineering   *Waterloo, Canada*
VARSITY SWIMMER ON THE WATERLOO WARRIORS SWIM TEAM, BALANCING SCHOOL WITH 17+ HOURS OF TRAINING/WEEK   *Sept. 2020 - Apr. 2025*