Aly Shariff

Waterloo, ON. Montreal, QC.

📱 +1 (514) 402-8898 ✉ alyshariff2810@gmail.com 🔗 linkedin.com/in/aly-shariff-6507951b3/ 🔗 github.com/alys28

Technical Skills

Languages: Python, JavaScript, HTML/CSS, Racket, SQL, C++
Developer Tools: VS Code, XCode, Android Studio, Expo, Postgres
Technologies/Frameworks: React, React Native, Express, Flask, MongoDB, NodeJS, Tensorflow, Scikit-Learn, Pandas

Experience

Software Developer February − August 2023
DoorHan International *Remote*

- Designed a comprehensive software solution encompassing both a web application and mobile app to automate and accelerate the delivery of quotes to clients, which was previously done by hand.
- Developed an admin dashboard on a web interface using React to streamline contractor management for administrators.
- Created a mobile app using React Native with both online and offline capabilities for contractors to generate automatic quotes based on client configurations, featuring compatibility filtering and pricing calculations.
- Developed a NodeJS and Express API for communication between the database, web application, and mobile application, ensuring efficient data management and coordination across the system components.

Software and Finance Intern November 2020 − August 2023
Gestion Immobilière Anwar Inc. *Montreal, QC*

- Proposed and developed a desktop application with PyQt5 in Python to automate the processing of a large volume of documents (notices of rent increases to tenants), improving document management efficiency by more than 70%.
- Worked with Microsoft Excel and Sage 50 to process and manage client data, and track monthly company expenditures.

Co-Founder and CEO June 2020 − August 2022
AXYAS Tutoring Service *Montreal, QC*

- Founded an online tutoring service to help students facing academic difficulties during the COVID pandemic.
- Developed and grew the business over a span of 2 years, successfully generating $45,000 in sales, while leveraging leadership and communication skills to pitch services, close sales, and coordinate projects within the company.
- Managed a dedicated team of 50 high school tutors who provided educational support to over 100 students, effectively orchestrating their efforts to meet the diverse learning needs of the student body.

Projects

Artificial Sign Language | *Python, Tensorflow, SciKit-Learn, Pandas, Mediapipe* **2023**

- Computer vision research project focused on building a software that translates American Sign Language to English.
- Acquired a comprehensive understanding of machine learning concepts (regression, ANNs, CNNs, etc.) and explored different data manipulation techniques, delving into various models to enhance key metrics like precision and accuracy.
- Project sparked the interest of a professor of the Université de Montréal and was selected to compete at the 2023 Regeneron International Science and Engineering Fair, the biggest science fair in the world.

DriveSense | *Python, OpenCV, Django, React Native, JavaScript* **September 2023**

- Developed a mobile application employing machine learning to assess the driving quality of individuals on the road, analyzing factors like speed fluctuations and leveraging computer vision for environment visualization.
- Implemented YOLO algorithm and utilized transfer learning techniques to accurately detect and measure objects and distances in the driving environment, and created a Python backend to communicate with the mobile frontend.
- Project was named finalist at Hack The North, Canada's biggest hackathon.

The Chat App | *JavaScript, React, Express, NodeJS, MongoDB* **July 2022**

- Used the MERN stack to create a full stack real-time chat application on a web interface.
- Implemented authentication and authorization with cookies and JWTs, chat history and real-time communication using sockets.
- Learned how to manage a full stack web project, leading to a comprehensive understanding of the project lifecycle.

Education

University of Waterloo **2023 − 2028**
Bachelor of Science in Computer Science *Waterloo, ON*