ALY SHARIFF

Waterloo, ON. / Montreal, QC.

Technical Skills

Languages: Python, JavaScript, HTML/CSS, Racket, SQL, C++

Technologies/Frameworks: React, React Native, Express, Flask, MongoDB, NodeJS, Tensorflow, Scikit-Learn, Pandas Awards: \$15,000+ in Science Fair awards (includes Regeneron International Science and Engineering Fair Finalist and more), 5x hackathon winner (including Hack the North Finalist and PolyAI CodeML 1st place)

Experience

Software Developer March – August 2023

DoorHan International

Remote

- Designed a web and mobile comprehensive software solution to automate and reduce the time to deliver quotes to clients by **more than 80%**, 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 (**PostgresSQL**), 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 spendings.

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.
- 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 (Click on project titles to learn more)

Artificial Sign Language (Science Fair ISEF Project) | Python, Tensorflow, OpenCV, SciKit-Learn, Mediapipe 2023

• Computer vision research project focused on translating American Sign Language to English with deep learning. Collaboration with Professor H. Sahraoui at Université de Montréal.

- Data analysis and web scraping in C++ and Python. Computer Vision with OpenCV, Tensorflow and MediaPipe.
- Developed LSTM model that could translate 25 gestures with custom augmented dataset, while acquiring a comprehensive understanding of machine learning concepts (ANNs, CNNs, RNNs, transfer learning).

DriveSense (Hack The North Finalist) | 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 YOLOv5 algorithm for car plate detection, traffic light colors and road signs, developed a custom algorithm to measure distances in the driving environment, and created a Django backend to communicate with the mobile frontend.

The Chat App | JavaScript, React, Express, NodeJS, MongoDB, Socket.IO

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