Aly Shariff

Waterloo, ON. / Montreal, QC.

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Qualifications

Languages: English, French
Programming Languages: Python, JavaScript, HTML/CSS, Racket, SQL, C++
Technologies/Frameworks: React.js, React Native, Express, Flask, MongoDB, Node.js, NumPy, Tensorflow, Scikit-Learn, Pandas
Software and Dev Tools: GitHub, Git, REST API, VSCode, LATEX, Excel.

Experience

Software Developer   **March 2023 – August 2023**
DoorHan International   *Remote*

- Designed an automated cross-platform quote delivery software that reduced the time delivery times by **80%**.
- Developed an admin dashboard **using React** to streamline contractor management, **increasing sales by 10%.**
- 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 backend with a PostgresSQL database** for cross-platform communication.

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*

- Generated **$45,000 in sales** in 2 years, by ensuring excellent service and consistent online advertising (Facebook Ads).
- Managed **50 tutors** who helped over **100 satisfied students**, demonstrating leadership and organizational skills.

Projects (Click on project titles to learn more)

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

- **1 of 8 chosen on Team Canada for ISEF 2023**, with **$15,000+** in science fair awards
- **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.

XChange | *JavaScript, HTML/CSS, Express, NumPy, Pandas, SciKit-Learn*   **January 2023**

- Banking exchange transaction visualization tool through a website made with JavaScript, HTML, and CSS. Data analysis through C++. Usage of density estimation (unsupervised learning) for anomaly detection in banking database.

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

- Used the **MERN stack** to create a **real-time chat application**. Implemented authentication and authorization with **cookies and JWTs, chat history and real-time communication using sockets**.

Education

University of Waterloo   **2023 − 2028**
Bachelor of Computer Science - 3.98 GPA   *Waterloo, ON*