Joudat Haroon

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EDUCATION

University of Guelph **September 2020 - April 2025**

Bachelors of Computing, Honours Computer Science Co-op

- Relevant Coursework: Data Structures & Algorithms, Linear Algebra, Operating Systems, Software Design & Patterns, Discrete Mathematics, Software Development, Web Development, Statistics

EXPERIENCE

Junior Software Developer **July 2022 – December 2022**

CondoWorks | Remote | JavaScript, Puppeteer, Git, UNIX, Agile

- Built new web scrapers and parsers for our software, sometimes requiring careful traversal through trees or tables
- Monitoring performance and accuracy of the system
- Rise in growth rate of invoices created per month since employment, approximately 1,397 more per month
- Improvements to scrapers yield a variable reduction in scrape times, that in some best cases, shed minutes off per account and per invoice
- Occasionally built programs to dynamically create sales lists for my employer
- Besides development, had productive conversations with my employer regarding
- design implementations of our auxiliary software to optimize interns' workflow

PROJECTS

Heckler.AI - Hack the Valley 8 Submission *Python, MediaPipe, OpenCV, Taipy*

- Utilized OpenCV and Google's MediaPipe framework to detect and analyze hand and arm movements, facial cues, and posture.
- Built the logic for detecting slouching in presenters that are either facing toward or away from the webcam.
- Developed an application for supporting aspiring leaders and individuals seeking to improve their presentation skills by providing real-time feedback whenever the presenter would start to lose the audience's engagement.
- At the end of the presentation, Heckler.AI will also provide a post-presentation analysis, displaying some captured instances of where the presenter could make an improvement to their body language.

AI Sign - GryphHacks 2023 Submission *React, TensorFlow, OpenCV , HTML, CSS*

- Utilized computer vision algorithms and OpenCV to detect and track hand gestures and movements in real-time.
- Trained a deep learning model using CNNs and libraries like TensorFlow to recognize sign language gestures accurately.
- Designed a user-friendly interface with real-time text display for easy interaction and understanding of sign language translations.
- An effective platform for individuals to quickly understand and communicate in the American Sign Language (ASL) with individuals affected with a vocal or auditory impairment.

Molecules *Python, JavaScript, jQuery, SQL, C, HTML, CSS*

- Created a full stack CRUD web app that parses SDF files, stores them as molecules in a database, and generates and displays an SVG image representing the molecule.
- Developed the backend library with C.
- Wrapped the library with Python to read SDF files and write SVG images. Created a database with SQLite3.
- Built a web server using Python's HTTP server module, with jQuery to handle responses to asynchronous GET and POST requests, and HTML and CSS for the UI.

Workout tracker *JavaScript, React, Express, MongoDB, HTML, CSS*

- Web app that allows users to add, edit, and delete exercises.
- Developed the frontend using React and the backend with Node and Express. Exercises are stored using MongoDB.
- Responsive for mobile and tablet formats as well.

SKILLS

Programming: JavaScript | Python | Java | C | C# | TypeScript | SQL | R | HTML | CSS

Technologies: Flask | React | React-Native | Angular | Next.js | Node.js | Express.js | REST | Grafana | Tensorflow | OpenCV | Tailwind | Bootstrap | Redux | Puppeteer | jQuery | MongoDB

Tools: Docker | Unix | Git | MS Word | MS Excel | MS PowerPoint | Windows | Android Studio | XCode

ACHIEVEMENTS & EXTRACURRICULAR

- Hack the Valley 8 - First Place
- GryphHacks 2023 - Third Place
- $3000 Entrance Scholarship
- Hack the North 2023 Volunteer