Joudat Haroon

[Portfolio](#) ● (647) 458-9462 ● joudat01@gmail.com ● [linkedin.com/in/joudat-haroon/](#) ● [github.com/joutad](#)

EDUCATION

University of Guelph   **September 2020 - April 2025**
Bachelors of Computing, Honours Computer Science Co-op

SKILLS

Programming: C, Python, JavaScript, C#, Java, SQL, PHP, R, HTML, CSS

Technologies: Flask, React, React-Native, Next.js, Node.js, Express.js, Tensorflow, OpenCV, Redux, jQuery, MongoDB

Tools: Docker, Git, Unix, Bash, Windows, Android Studio, XCode, MS Office

EXPERIENCE

Software Developer Co-op - Camis - Guelph   **January 2024 – Present**
React, TypeScript, Angular, C#, .NET 6, SQL, Git, Agile
- Payment Squad

Junior Software Developer - CondoWorks - Toronto   **July 2022 – December 2022**
JavaScript, Puppeteer, Git, UNIX, Agile
- Built new web scrapers and parsers for our software
- 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 yielded a variable reduction in scrape times, shedding minutes off per account and per invoice
- Occasionally built programs to dynamically create sales lists for my employer
- 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.

Lil' Learners - DeerHacks 2024 Submission ⌂ ⓓ   *Flask, JavaScript, MongoDB, Auth0, Cohere, HTML/CSS*
- Created a platform that revolutionizes learning for children.
- Empowers students to personalize their learning journey by decorating their virtual island and earning points through interactive educational games.
- Facilitates real-time communication between teachers, students, and parents through chat boxes.
- Utilized Cohere's Playground API to generate fill-in-the-blank questions for the linguistic grammar game.
- Used MongoDB to create different account classes (Teachers, Students, Parents).
- Incorporated Auth0 for robust security and user convenience.

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.

ACHIEVEMENTS & EXTRACURRICULAR

- Hack the Valley 2023 - First Place
- GryphHacks 2023 - Third Place
- DeerHacks 2024 - Best use of Auth0
- Guelph Coding Club - Attended SOCS Circuitry, GDSC Firebase, Coding Challenges
- Hack the North 2023 Volunteer - Workshop, Floor patrol, Food