# Joudat Haroon

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

## 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

## SKILLS

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

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

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

## 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, that in some best cases, shed 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.

**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** ⌂ *React, Express, JavaScript, 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.

## ACHIEVEMENTS & EXTRACURRICULAR

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