# Joudat Haroon

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## EDUCATION

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

## SKILLS

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

**Technologies:** Django, React, Node.js, MongoDB, Express.js, Tensorflow, AWS, GCP, PostgreSQL, Flask, OpenCV, Redux, Next.js, React-Native, jQuery

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

## EXPERIENCE

**Backend Developer -** Hackathons Canada - Toronto **September 2024 - Present**
*Python, Django, PostgreSQL, Figma, Git*

- Developed a bookmarking and email notification feature that will be used by thousands of students across schools, colleges, and universities in Canada.

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

- Developed, maintained, and tested features within, but not limited to, online payments, integrated and non-integrated payments, reconciliation, and financial reporting.
- This is manifested through refactors, visual QOL changes, introducing new features, or fixing bugs.
- Presented new features to internal stakeholders during sprint reviews.
- Worked with various State (U.S) or Provincial (Canada) parks on release impediments, resulting in high client satisfaction.

**Junior Software Developer -** LeapAP (formerly 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
- Improved scraper efficiency, reducing scrape times and increasing invoice creation by approximately 1,397 per month.
- Developed dynamic sales list programs and engaged in design discussions to optimize workflows.

## PROJECTS

**aniML - HawkHacks 2024 Submission** *Python, TensorFlow, NumPy, Matplotlib, Keras, Pillow*

- Created a novel approach to creative frame interpolation, focusing on drawn images rather than real-life objects.
- Generates intermediate frames (images) between user-drawn beginning and ending frame images using a GAN (Generative Adversarial Network), reducing the time and effort required for animation.
- Utilized TensorFlow, NumPy, Matplotlib, and Keras for building, training, and validating the GAN. Employed Pillow for image handling.
- Designed and implemented the GAN architecture, including a generator that produces fake images and a discriminator that distinguishes between real and fake images.

**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.

**Molecules** *Python, JavaScript, C, SQL, jQuery, 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
- Hawk Hacks 2024 - Third Place
- Guelph Coding Club - Attended SOCS Circuitry, GDSC Firebase, Coding Challenges
- Hack the North 2023 Volunteer - Workshop, Floor patrol, Food