Joudat Haroon

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Education

University of Guelph - *Bachelor of Computing, Computer Science*   *September 2020 – May 2025*

Experience

Backend Developer - *Hackathons NA*   *Toronto, Ontario*
Python, Django, PostgreSQL, Docker, Figma, Git   *September 2024 – Present*

- Implemented an email notification system that notifies users of new hackathons according to their set preferences.
- Built a bookmarking feature for users to keep track of hackathons they are interested in attending.

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

- 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.

Software Developer Intern - *LeapAP (formerly CondoWorks)*   *Toronto, Ontario*
JavaScript, Puppeteer, Git, UNIX, Agile   *July 2022 – December 2022*

- 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 participated in design discussions to optimize workflows.

Projects

aniML - Hand Drawn Frame Generation   *github.com/joutad/aniML*

- Created a novel approach to creative frame interpolation, focusing on drawn images.
- 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 hand-drawn animation.
- Utilized TensorFlow, NumPy, Matplotlib, and Keras for building, training, and validating the GAN. Pillow was used 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.
- Tools Used: Python, TensorFlow, NumPy, Matplotlib, Keras, Pillow

Heckler.AI - Body Language Analysis for Public Speaking   *github.com/angeladev333/heckler.ai*

- 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.
- Tools Used: Python, MediaPipe, OpenCV, Taipy

Molecules - Full Stack Web Application   *github.com/joutad/molecules*

- 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.
- Tools Used: Python, JavaScript, C, SQL, jQuery, HTML/CSS

Technologies

Languages: Python, JavaScript, C, C#, Java, C++, SQL, TypeScript, PHP

Technologies: Django, React, Node.js, MongoDB, .NET, AWS, PostgreSQL, Flutter