

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, Software Design & Patterns, Discrete Mathematics, Software Development, Web Development

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

AI Sign - GryphHacks 2023 Submission

HTML/CSS, React, TensorFlow, OpenCV

- 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

HTML/CSS, Python, JavaScript, jQuery, SQL, C

- 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

HTML/CSS, JavaScript, React, Express, MongoDB

- 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.

Slot machine - Discord

Java, JDA

- Built a bot for discord servers that listens to text-based commands issued by users and provides an output resembling a slot machine with fully functional animations.
- Makes use of randomness and time variance to simulate an actual slot machine within a text-based application.

SKILLS

Programming: Java | JavaScript | Python | C | SQL | HTML | CSS

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

Tools: Docker | Unix | Git | Android Studio | XCode

ACHIEVEMENTS & EXTRACURRICULAR

- GryphHacks 2023 Winner
- \$3000 Entrance Scholarship
- ETHGlobal Waterloo 2023
- Guelph Coding Club
- Hack the Job 2022