Shreeharsh Jadhav

905-783-0568 shreehar@uoguelph.ca linkedin.com/in/shreeharsh-jadhav github.com/Hypeeq

Technical Skills

Languages: Python, C/C++, C#, Java, HTML, Latex, CSS, NodeJS, ExpressJS, MongoDB, ReactJS.

Developer Tools: - Github, Bootstrap, Gitlab, Docker, MS Office, Vite.

Operating Systems: MacOS, Windows, Linux/Unix.

Technologies/Frameworks: Flask, FastAPI, Django, SWIG.

Currently Learning: Javascript, FastAPI, SQL.

Education

University of Guelph **Sep. 2022 – Present**

Bachelor of Computing Honours, Computer Science Co-op

Minor in Business

Achievements:

- Entrance Scholarship (2022) – in recognition of completing high-school with an average of 95 percent or above.
- College of Engineering & Physical Sciences Dean's Honours List (Winter 2023 - Present) - achieving an 80% or above average in all the completed semesters.

Work Experience / Extracurricular

Software Developer (Co-op), University of Guelph **Summer 2024 – Present**

- Working on developing an online web application for completing coding assignments and labs, where focus is on Automation and quality of education.
- Complete construction of the application on NodeJS: backend development, including server setup, RESTful APIs, database integration, authentication, authorization, and data security.
- Automation: integrate tools for code evaluation, plagiarism detection, and detailed feedback.
- Technologies and tools: NodeJS, ReactJS, JavaScript, Vite, HTML, CSS.
- API and Libraries: Piston API for real-time code execution, Monaco Library (React) for advanced code editing, and Chakra UI for customizable UI components.

Projects

Snake Eyes Web App | *Python, Flask, PostgreSQL, Celery* **2023**

- Robust Technology Stack: Snack Eyes is built with powerful technologies including Redis for caching, Gunicorn for handling concurrent connections, Flask as the core framework, Celery for asynchronous tasks, SQLAlchemy for database interactions with PostgreSQL, and Docker for streamlined deployment.
- Seamless User Experience: The app offers a smooth browsing and purchasing experience for snack enthusiasts, leveraging Redis for fast responses and Stripe for secure payment processing.
- Efficient Administration and Scalability: Click provides an intuitive CLI for easy management, while Celery ensures smooth performance during peak usage. Docker ensures consistent deployment environments.

Alphabetic Histogram (Parallel Computation) | *C* **2024**

- This program, written in C, facilitates the concurrent generation of histograms for alphabetic characters in multiple input files. It employs inter-process communication (IPC) using pipes and implements signal handling to manage child processes effectively.
- Concurrent Histogram Generation and IPC: Uses child processes and pipes to concurrently generate histograms for alphabetic characters from multiple input files, transmitting results back to the parent process.
- Signal Handling and Output: Incorporates signal handling to manage child processes, intercepting SIGCHLD signals to handle terminated processes. Child processes generate histograms and write results to files named with their PIDs.

8-Ball Pool | *C, SWIG, Python, SQLite, JavaScript, HTML, CSS* **2024**

- Multi-language Integration and SWIG: The core physics engine is implemented in C, and SWIG creates Python bindings to access this engine in Python scripts for high-level logic and scripting.
- Comprehensive Frontend and Backend Stack: The frontend uses JavaScript, HTML, and CSS for a user interface, while the Python backend communicates with the frontend and leverages the C-based physics engine via SWIG.
- Efficient Data Management with SQLite: SQLite is used for storing game data, including player info and game states. The Python backend interacts with SQLite for seamless data storage and retrieval.

Extracurriculars

GryphHacks 2023 — May 2023

- Participated in a Hackathon hosted by University of Guelph, gained experience about Machine Learning/AI.

Social Project — 2023

- Collaborated with professors to write an open letter regarding Housing Crises in Guelph and its impacts as well as solutions. This project was published as a blog in Guelph Today and CBC news