Aarib Sami

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SKILLS

Programming: Java, Python, C, C#, JavaScript, HTML, CSS, Typescript, Node.js, React.js, SQL, Firebase, Flask, Swift
Tools: Git, GitHub, GitLab, Unity, Visual Studio Code, PyCharm, Eclipse, AWS

EDUCATION

University of Guelph **Guelph, Ontario**
B.S. in Computer Science (Co-op) *Expected Graduation: Apr 2028*
Minor in Project Management

- **GPA:** 4.00/4.00, *Dean's List*
- **Related Coursework:** Data Structures, Object Oriented Programming, Application of Microcomputers

PROJECTS

GryphCourseWatch *Jun 2024 – Aug 2024*

- Developed a web scraping tool using **Python** and **Playwright** to monitor university course availability in real-time, reducing student time spent on course selection by **≈25%** across **100+** courses
- Integrated frontend with **HTML/CSS**, **JS** and **Flask** to allow users to register for alerts and view courses
- Implemented email notifications using **SMTP** and **Mailgun** to alert students of available course spots
- Generated interest from **1,000+** students pre-launch, showcasing strong demand for the platform

FaceID Attendance System *Jun 2024 – Jul 2024*

- Designed an attendance system using **Python** and **OpenCV** achieving a facial recognition accuracy of **95%**
- Deployed automated attendance logging by detecting faces within **1.75s** and updating database
- Integrated with **Firebase** for real-time database management and of student attendance data
- Designed an interface using OpenCV's graphical system to display student data such as name and major

Sign Language Translator *May 2024 – Jun 2024*

- Built a live sign language recognition system using **TensorFlow**, achieving **92%** accuracy across five gestures
- Fine-tuned a custom SSD **MobileNet** model, boosting recognition performance by over **25%**
- Utilized **OpenCV** for efficient video capture and processing, enabling detection within **≈1.53s** latency/frame

Zoo Animal Classifier - Machine Learning *Jan 2024 – Feb 2024*

- Implemented a k-nearest neighbours (k-NN) algorithm in **C** to predict the class label of a new given animal
- Utilized a Zoo Dataset sample consisting of 100 animals, each with 10 attributes and a class label
- Achieved a final accuracy of **85%** in animal classification on the test set of 20 animals

Humanitarian Aid System *May 2023 – Jun 2023*
Team Member

- Engineered a **Java**-based platform that facilitated the management of loan requests to the government
- Implemented an interface using Java's **Swing** library, allowing for requests to be accepted or rejected
- Created features such as application filtering by search and dynamic list rendering of **100+** loan requests

ACTIVITIES AND LEADERSHIP

Muslim Student Association **Guelph, Ontario**
Events Director *Apr 2024 – Current*

- Led the organization in planning religious/educational events achieving regular turnouts of 200+ students

Google Student Developer Club **Guelph, Ontario**
Member *Sep 2023 – Current*

- Participated in projects using JS/React.js and Firebase to enhance knowledge of database implementation