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