

Aarib Sami

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EDUCATION

University of Guelph

B.S. in Computer Science (Co-op)

Minor in Project Management

GPA: 4.00/4.00, Dean's List

Related Coursework: Data Structures, Object Oriented Programming, Microcomputer Application, Discrete Structure I/II

Guelph, Ontario

Expected Graduation: Apr 2028

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 course sections
- Implemented email notifications using **SMTP** and Mailgun to alert students when course spots become available
- Generated interest from **1,000+** university 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 with student
- Integrated with **Firebase** for real-time database management and cloud storage of student attendance data
- Designed an interface using OpenCV's graphical system to display student data such as name, major and year

Sign Language Translator

May 2024 – Jun 2024

- Built a live sign language recognition system using **TensorFlow**, achieving **92%** accuracy across five key 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 per frame
- Developed an end-to-end pipeline for data collection, model training, and inference

Zoo Animal Classifier - Machine Learning

Jan 2024 – Feb 2024

- Utilized a Zoo Dataset sample consisting of 100 animals, each with 10 attributes and a class label
- Implemented a k-nearest neighbours (k-NN) algorithm to predict the class label of a new given animal
- Performed calculations using Euclidean Distance, Hamming Distance, and Jaccard Similarity formulas
- Achieved a final accuracy of 80% 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 from citizens to government
- Implemented an interface using Java's **Swing** library, allowing for requests to be accepted or rejected
- Contributed to 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 and educational events achieving a regular turnout of 200+ students

Google Student Developer Club

Guelph, Ontario

Member

Sep 2023 – Current

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

SKILLS

Programming: Java, Python, C, C#, JavaScript, HTML, CSS, Typescript, Node.js, React.js, Lua, SQL, Firebase, Flask, Swift

Tools: Git, GitHub, GitLab, Unity, Visual Studio Code, PyCharm, Eclipse, AWS