

# Aarib Sami

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## EDUCATION

### University of Guelph

B.S. in Computer Science

Minor in Project Management

Guelph, Ontario

Expected Graduation: April 2028

- **GPA:** 4.00/4.00, *Dean's List*
- **Related Coursework:** Data Structures, OOP, Application of Microcomputers, Intro/Intermediate Programming

## PROJECTS

### GryphCourseWatch

Jun 2024 – Aug 2024

- Developed a web scraping tool using Python and Selenium to monitor university course availability in real-time decreasing student time spent on course selection by  $\approx 25\%$
- Created a frontend with HTML/CSS, JS and Flask to allow users to register for notifications and view course sections
- Implemented email notifications using SMTP and Mailgun to alert students when course spots become available
- Generated interest for the platform from 1,000+ students pre-launch, highlighting its potential impact within the community

### AI FaceID Attendance System

Jun 2024 – Jul 2024

- Developed an AI-powered face recognition attendance system using Python and OpenCV, achieving an accuracy of 95% in attendance logging
- Implemented automated attendance logging by detecting faces within 1.75s and updating database with each recognized student
- Integrated with Firebase for real-time database management and cloud storage of student attendance data
- Designed an interface displaying real-time student information such as name, major, year, total attendance and ID

### Sign Language Translator

May 2024 – Jun 2024

- Built a real-time 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%
- Developed an end-to-end pipeline for data collection, model training, and inference
- Utilized OpenCV for efficient video capture and processing, enabling detection within  $\approx 1.53s$  latency per frame

### Zoo Animal Classifier - Machine Learning

Jan 2024 – Feb 2024

- ML software utilized Zoo Dataset 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 an accuracy of 80% on the test set of 20 animals

### Humanitarian Aid System

May 2023 – Jun 2023

Team Member

- Collaborated on a Java-based aid system software that simulated a platform where citizens could submit loan requests to the government
- Implemented a user-friendly interface using Java's Swing library, allowing for review and management of loan requests in a simulated government setting
- Contributed to features such as application filtering, status updates, and dynamic list rendering to enhance the functionality and user experience of the simulated aid system

## ACTIVITIES AND LEADERSHIP

### Muslim Student Association

Guelph, Ontario

Events Director

April 2024 – Current

- Helping organize religious and educational events for 200+ people, contributing to a diverse campus environment

### Google Developer Student Club

Guelph, Ontario

Member

Sep 2023 – Apr 2024

- An active member participating in projects and events, and contributing to a vibrant community of aspiring developers

## 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