Aarib Sami

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EDUCATION

University of Guelph   **Guelph, Ontario**
B.S. in Computer Science   *Expected Graduation: April 2028*
Minor in Project Management
- **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, reducing student time spent on course selection by ≈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 student information such as name, major, year, total attendance and ID

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

ACTIVITIES AND LEADERSHIP

Muslim Student Association   **Guelph, Ontario**
Events Director   *Apr 2024 – Current*
- Helping organize religious, social and educational events for 200+ students, contributing to a diverse campus environment

Google Developer Student Club   **Guelph, Ontario**
Member   *Sep 2023 – Current*
- An active member participating in collaborative projects and events while 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