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 decreasing 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 and updating database with each recognized student
- Integrated with Firebase for real-time database management and cloud storage of student data and attendance records
- Designed an interface displaying real-time student information such as name, major, year, total attendance and ID

Contact List Organizer *May 2024 – Jun 2024*

- Designed and developed a Contact Management System to facilitate CRUD operations on contact data
- Utilized HTTP methods to perform corresponding CRUD actions on contact resources
- Backend employs Flask, a Python-based micro web framework, to handle HTTP requests and serve API endpoints
- Utilized SQLAlchemy ORM for seamless interaction with a PostgreSQL database

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

- Project based on the Zoo Dataset consisting of 100 animals, each with 10 attributes and a class label
- Implemented a k-nearest neighbors (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 which 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 project 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, Unity, Visual Studio Code, PyCharm, Eclipse, AWS