

# Aarib Sami

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## EDUCATION

### University of Guelph

B.S. in Computer Science

Minor in Project Management

Guelph, Ontario

Expected Graduation: April 2027

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

## PROJECTS

### AI FaceID Attendance System

June 2024 – July 2024

- Developed an AI-powered face recognition attendance system using Python and OpenCV
- 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 2023 – Jun 2023

- 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

### Course Scheduler

Oct 2023 – Nov 2023

- Constructed a university course allocation system, using C language for an academic project
- Implemented functions to efficiently read and process data from external text and binary files, capturing course names and IDs and assigning them to professors

### 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

### Google Developer Student Club

Guelph, Ontario

Member

Sep 2023 – Current

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

### 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

## 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