

AARIB SAMI

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EDUCATION

University of Guelph

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

Minor in Project Management

Guelph, ON

2023 – 2027 (*Expected*)

- **GPA:** 4.00/4.00, *Dean's List*
- **Related Coursework:** Algorithms, Operating Systems, Data Structures, Object Oriented Programming, Application of Microcomputers, Intermediate Programming, Discrete Structures I/II

TECHNICAL SKILLS

Programming: Python, Java, C/C#, React.js, HTML/CSS, JavaScript, PyTorch, Flask, Node.js, Firebase, SQL

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

EXPERIENCE

Incoming Software Developer

Candescent

May 2025 – Dec 2025

Waterloo, ON

PROJECTS

FireGuard AI | Python, PyTorch, Flask, React.js, HTML/CSS

Dec 2024 – Jan 2025

- Trained a **PyTorch**-based **neural network** model to predict forest fires, achieving **93%** accuracy on test data
- Constructed a front-end using **React** and **Mapbox API**, enabling geolocation search and map navigation
- Integrated the **OpenWeather API** to collect up-to-date weather data, improving prediction precision by **15%**
- Implemented a **Flask** backend to seamlessly connect the **machine learning** model with the React front-end

GryphCourseWatch | Python, Flask, Playwright, HTML/CCS, JavaScript

Jun 2024 – Aug 2024

- Developed a web scraping tool using **Python** and **Playwright** to monitor university course availability in real-time, reducing manual registration time by more than **32%** across **100+** courses
- Integrated front-end using **HTML**, **JavaScript** and **Flask** to allow users to register for alerts and view courses
- Marketed project on platforms like LinkedIn and Reddit generating interest from **1,500+** students pre-launch
- Implemented email notifications using **SMTP** and **Mailgun** to alert students of available course spots

FaceID Attendance System | Python, OpenCV, Firebase

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 the database accordingly
- Leveraged Firebase to dynamically update student attendance data, ensuring accurate records for future use
- Built a frontend interface using OpenCV's graphical system to display student data such as name and major

Sign Language Translator | Python, OpenCV, TensorFlow

Jun 2024 – Jul 2024

- Built a live sign language recognition system using **TensorFlow**, achieving **92%** accuracy across **26** gestures
- Utilized **OpenCV** for efficient video capture and processing, enabling detection within \approx **1.53s** latency/frame
- Fine-tuned a SSD **MobileNet** model, boosting recognition performance by over **25%**

Animal Identifier | C

Jan 2024 – Feb 2024

- Developed a k-nearest neighbors (**k-NN**) algorithm to classify animals achieving **86%** accuracy on a test set
- Conducted distance-based calculations using Euclidean Distance, Hamming Distance, and Jaccard Similarity, enhancing classification performance metrics
- Structured a dataset of 100 animals, each with 10 attributes and a class label, to prepare inputs for training and evaluating a k-nearest neighbors model

ACTIVITIES AND LEADERSHIP

Muslim Student Association

Events Director

Guelph, ON

Apr 2024 – Current

- Led the organization in planning religious and educational events achieving regular turnouts of **200+** students

Google Developer Student Club

General Member

Guelph, ON

Sep 2023 – Current

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