

# AARIB SAMI

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## EDUCATION

**University of Guelph — Guelph, ON**

2028

*Bachelor of Computing in Computer Science*

**GPA:** 3.94/4.00, *Dean's List*

**Related Coursework:** Algorithms, Operating Systems, Data Structures, Object Oriented Programming, Application of Microcomputers, Intermediate Programming, Discrete Structures I/II, Linear Algebra I

## TECHNICAL SKILLS

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

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

## EXPERIENCE

**Software Developer Intern**

May 2025 - Current

*Candescent*

*Waterloo, ON*

- Built UI components using **React.js**, **TypeScript**, and **MUI** for wire template import feature, enabling clients to upload and map field values from text files, implementing critical product functionality
- Collaborated closely with Product Owners and UX/UI designers to clarify feature requirements, validate design decisions, and suggest improvements, streamlining development cycles and enhancing team efficiency
- Built comprehensive error handling and duplicate validation for file definition names, reducing system errors
- Expanding technical scope by transitioning to backend API development using **Java** and **Spring Boot** framework

## 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%**

## ACTIVITIES AND LEADERSHIP

**Muslim Student Association**

Apr 2024 – Current

*Events Director*

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

**Google Developer Student Club**

Sep 2023 – Current

*General Member*

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