

# 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*

- Designed and built responsive UI components for wire payment feature using **React.js**, **TypeScript**, and MUI, enabling clients to upload text files and map **20+** field types to database schemas, deployed to **100+** companies
- Reduced API response time by **15%** through implementing file processing optimizations in **Java** using **Spring Boot**, improving user experience for **500+** concurrent users during peak file upload periods
- Streamlined feature delivery by collaborating with Product Owners and UX/UI designers to validate designs pre-development, reducing rework iterations by **25%** and accelerating team output
- Enhanced reliability through unit/integration tests using **Jest**, achieving **85%** coverage and reducing bugs by **30%**

## 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/CSS, 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

**Google Developer Student Club**

Sep 2023 – Current

*General Member*

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