

# AARIB SAMI

(647)-853-3518 | [aaribsamii@gmail.com](mailto:aaribsamii@gmail.com) | Canadian Citizen | [LinkedIn](#) | [GitHub](#) | [Portfolio Site](#)

## EDUCATION

### University of Guelph — *Guelph, ON*

2027

*B.S. in Computer Science, Minor in Project Management*

**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, Linear Algebra I

## 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

### Software Developer Intern (Upcoming)

May 2025

*Candescent*

*Waterloo, ON*

- Design and implement UI components using **React.js** and **JavaScript** for the Branch Teller Web Application
- Develop and execute end-to-end/unit tests ensuring reliability and performance across all banking operations

## 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 achieving regular 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