AARIB SAMI

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EDUCATION

University of Guelph — *Guelph, ON* 2027
B.S. 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, 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, accelerating team sprint velocity and story point delivery
- 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 AP**I 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