

Antoine Maroun Harb Vega

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Summary

A dedicated Computer Science graduate with expertise in frontend development and machine learning, with intermediate experience in full-stack development. Recognized for rapid learning, data-driven problem-solving, and delivering results in both collaborative and independent environments. Eager to grow and apply technical skills in innovative projects.

Work Experience

Frontend Development Intern

Aug 2024 – Oct 2024

Hiperlinx Cybersecurity, Beirut, Lebanon (Hybrid)

- Collaborated on intuitive **UI/UX** design using **Figma** and modern design principles.
- Developed original 15+ frontend features and components in **React.js** and **Vite**, reducing redundancy by 70%.
- Participated in **agile sprints**, completing over 35+ tasks tracked via **Asana** and **Bitbucket** with timely delivery.
- Conducted API testing using **Postman** to increase the frontend-backend consistency.

Projects

Sign Bridge: American Sign Language Alphabet Learning & Transcription Web-App

Dec 2024 – Apr 2024

- Trained a **Convolutional Neural Network (CNN) Keras** model on an augmented American Sign Language (ASL) alphabet dataset, achieving an optimized F1 score of 81 to 90%.
- Utilized **MediaPipe**, **OpenCV**, **CvZone**, and **scikit-learn** for landmark extraction, recognition, and validation.
- Built a responsive **frontend** with React.js and Vite, creating 10+ custom components and reusable **Higher Order Components (HOCs)**.
- Engineered a **Python Flask** backend with **WebSocket (WSS) APIs** for real-time, sub 300ms, sign detection.

Expense Tracker: Expense Tracker Android Application

Feb 2023 – Mar 2023

- Built an Android expense tracker using **Android SDK** and **SQLite** for persistent data storage and scalability.
- Integrated user-driven features including expense modification, real-time sorting, and category filtering for efficiency.

Education

Bachelor of Science in Computer Science (4.0 GPA + Honor Student)

Oct 2020 – June 2025

Arts, Sciences, and Technology University in Lebanon, Beirut, Lebanon

Skills & Expertise

Programing Languages & Frameworks: Java, Python, JavaScript (ES6+), PHP, SQL, HTML5, CSS3, React.js.

Libraries, Tools, & OS: Android SDK, Flask, MediaPipe, OpenCV, Git, Postman, Figma, Bash/Shell Scripting, Windows.

Soft Skills: Teamwork, Data-Driven Problem-Solving, Leadership, Patience, Communication, Flexibility.

Certifications

IT Specialist – HTML, HTML5, and CSS

Mar 2023

- Pearson's Certiport (<https://www.credly.com/badges/0a888867-7f8e-4590-b531-bbf4bffe3e8>).

Languages

Spanish: Native | **English:** Fluent | **French:** A2-B1 Level | **Arabic:** Elementary