

Maria Sabbagh

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Professional Summary

Final-year Computer and Communications Engineering student at Saint Joseph University of Beirut with hands-on experience in AI/ML development, mobile applications, and DevOps infrastructure. Skilled in building production-grade systems across the full stack from LLM-powered agents and secure sandboxed environments to cross-platform mobile apps and ML pipelines. Experienced in both industry internships and independent project delivery, with a strong focus on software security, automation, and system reliability.

Education

Saint Joseph University of Beirut	2021 – Present
Bachelor of Engineering in Computer and Communications Engineering	<i>Expected Graduation: 2026</i>
Ecole Secondaire des Filles de la Charite	Graduated 2021
Lebanese Baccalaureate – General Sciences	

Skills

- **Programming:** Python, C++, Java, HTML, CSS, JavaScript, Haskell, Kotlin, Dart
- **Frameworks & Libraries:** Flask, Flutter, Scikit-learn
- **Databases:** MongoDB, SQL Server
- **AI & LLMs:** Prompt Engineering, ReAct Agent Design, LLM Integration (Ollama, Qwen), NLP
- **DevOps & Infrastructure:** Docker, Git, Linux (Ubuntu), Sandboxed Execution, CLI Development
- **Software Design:** Microservices Architecture, Object-Oriented Design, GoF Design Patterns, Agile Methodology
- **Tools:** Visual Studio, Android Studio, IntelliJ, Matlab, Figma, Ngrok, VMware vSphere
- **Soft Skills:** Team Collaboration, Project Tracking, Deadline Management, Analytical Thinking, Problem Solving, Attention to Detail, Adaptability, Client-Oriented Development
- **Languages:** English, Arabic, French

Experience

ML Intern – BMB Group	Jun. 2025 – Jul. 2025
• Developed a web platform to accelerate AI demo preparation for clients • Engineered the Predictive AI module including dataset upload, correlation analysis, outlier handling, and automated data cleaning • Implemented an interactive model training pipeline supporting supervised and unsupervised learning, auto-algorithm selection, and performance comparison	
IT Training – Foxminds Solution Company, Lebanon	Aug. 2025
• Completed intensive training in virtualization, system administration, and networking • Configured and managed Windows Server services including Active Directory, DNS/DHCP, Group Policy, and access control • Applied core networking concepts such as IP addressing, subnetting, routing, switching, and troubleshooting • Gained hands-on experience with enterprise infrastructure deployment and server management scenarios	

Key Projects

ESIB AI Coding Agent – Final Year Project	Jan. 2026 – May. 2026
• Built an autonomous AI Coding Agent for proactive code generation and zero human touch reactive debugging • Architected a microservices framework for LLM or SLM inference on local NVIDIA GPUs using secure Docker containers • Engineered an automated self-correction loop to programmatically resolve system runtime errors • Packaged the AI pipeline as a scalable CLI tool, optimizing the continuous Execute-Analyze-Fix loop for local edge inferencing	
Rechelli – Smart Perfume Vending Machine	Apr. 2025
• Developed the frontend of a smart perfume vending machine application using Flutter • Built an intuitive user interface enabling users to select and dispense predefined perfume quantities • Incorporated sustainability features by supporting the usage of refillable and recyclable containers	
Betchill Application	Nov. 2024
• Developed a mobile social platform using Kotlin in Android Studio and IntelliJ • Integrated MongoDB for backend data storage and Ngrok for secure local API exposure and testing • Implemented core features including user profiles, interests, events, group messaging, and activity-based interactions	

Extracurricular Activities

Google Developer Student Clubs (GDSC)	2024 – Present
Other Activities:	
• Pianist: Performed in recitals – focus, discipline, stress management	• Basketball: Teamwork, confidence, leadership

Certificates

• CCNAv7: Introduction to Networking	2024
• CCNAv7: Switching, Routing, and Wireless Essentials	2024