

WILLIAM CHALHOUB

Electrical and Computer Engineering Student | American University of Beirut

+961 70 183 944 • williamchalhoub@outlook.com • Zouk Mikael, Lebanon

PROFILE

Second-year Electrical and Computer Engineering student at the American University of Beirut with hands-on experience in AI applications, embedded programming, and team-based engineering. First-place winner of the EU-backed MEDAIGENCY AI4Purpose Hackathon, with a strong foundation in Python and C++ and active leadership roles in IEEE and the MSFEA Student Council.

EDUCATION

American University of Beirut (AUB) - Beirut, Lebanon *Sept 2024 - Expected 2028*
B.E. in Electrical and Computer Engineering, Maroun Semaan Faculty of Engineering and Architecture (MSFEA)

- Currently in second year; relevant coursework includes Computer Organization (RISC-V Assembly), Digital Logic, electronics and Signals and systems.

Collège Saint Joseph Antoura (CSJA) - Antoura, Lebanon *Graduated 2024*
French Baccalaureate - High Distinction

TECHNICAL SKILLS

Programming: Python, C++, RISC-V Assembly
Concepts: AI / Machine Learning fundamentals, Digital Logic, Embedded Systems
Tools: VS Code, Cursor, Claude Code, Figma, n8n, RARS / Venus (RISC-V simulators)
Soft Skills: Team collaboration, public speaking, event organization, mentoring

HONORS & PROJECTS

1st Place - MEDAIGENCY AI4Purpose Hackathon *2026-present*
EU Interreg NEXT MED Programme | AI for Crisis & Health Resilience in the Mediterranean

- Designed an automated **AI-driven system** to improve real-time communication between citizens, emergency services, and shelters during crises using n8n.
- Built dynamic supply-allocation logic that matches resources to live demand, preventing shortages and overloads in emergency scenarios.
- Currently transitioning the winning prototype into a fully functional system for real-world deployment.

EXPERIENCE

Software Development & AI Trainee - GROWAQUISITIONS SARL *June 2026 - Present*

- Receiving practical training in software development principles including codebase review, API integrations, testing, debugging, and deployment through supervised participation in real operational projects.
- Being introduced to AI engineering practices including prompt engineering, Large Language Model (LLM) integrations, Retrieval-Augmented Generation (RAG), agent design, and evaluation of AI outputs.
- Designing UX/UI interfaces and prototypes using Figma as part of real client-facing product work.

Chess Instructor - MAM "Make A Move" Chess Academy, Zouk Mikael *2023 - 2024*

- Coached students of varying ages and skill levels in chess strategy, openings, and tournament play.
- Officially certified by the Lebanese Chess Federation (FIDE) as a Chess Instructor.

LEADERSHIP & ACTIVITIES

Student Representative - MSFEA E2 Council, AUB *2025 - 2026*
Outreach Officer - IEEE AUB Student Branch *2025 - 2026*
Branch Representative - IEEE AUB Student Branch *2024 - 2025*
Vice President - CVL (Comité de Vie Lycéenne), CSJA *2023 - 2024*
Acted as second-in-command to the school president on the High School Life Committee.
Scout - Scouts du Liban, CSJA *2015 - 2024*

- Patrol Chief (CP) for boys aged 12-17 (2022); Sizenier Chief (SI) for boys aged 8-12 (2018).
- Godia volunteer (2023): supporting children with autism, Down syndrome, and other special needs.

CERTIFICATIONS

- AI Starter Kit Certificate (2025)
- IEEE AI Bootcamp Participation Certificate (2025)
- Chess Instructor Certificate -Lebanese Chess Federation (2024)

LANGUAGES & INTERESTS

Languages: Arabic (Native) | French (Full Professional) | English (Full Professional)
Interests: Chess (FIDE-rated tournament player), skiing, badminton, frisbee, calisthenics, and personal coding projects