

Hamed Bou Saleh

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PROFESSIONAL SUMMARY

Third-year Computer Engineering student with a solid foundation in programming and circuit design. Eager to apply classroom knowledge to real-world projects and internships. Actively seeking opportunities to contribute to innovative engineering solutions while continuing to develop my software skills.

EDUCATION

American University of Beirut, MSFEA Computer and Communications Engineering

Aug 2023 – Jun 2027

- Dean's Honors List (Fall 2024, Fall 2025)
- Activities and societies: AUB Consulting Club, IEEE, LAAS

Le Lycée National, General Sciences Section

Sep 2021 – Jul 2023

- Graduated with Distinction (Average: 17.52)

EXPERIENCE

IDS Academy – Integrated Digital Systems, Full Stack Web Development Intern

Dec 2025 – Jan 2026

- Participated in an intensive full-stack internship program focused on real-world application development.
- Designed and implemented a complete web-based learning platform as part of a team project.
- Developed the frontend using Vue.js and the backend using Laravel (PHP) with MySQL database integration.

PROJECTS

AES Again: AES Visualizer and Encryption Tool

- Built a full-stack web application that visualizes the AES-128 encryption algorithm step-by-step for educational purposes
- Developed the backend in Python (Flask) with a custom AES implementation from scratch, and deployed on Render with PostgreSQL for user authentication and history tracking
- Implemented features including single-round visualization, avalanche effect analysis, key expansion, S-box exploration, and AES-CBC file encryption/decryption
- Supports arbitrary-length inputs with automatic PKCS#7 padding and multi-block ECB processing

SatScan: Satellite Image Detection and Classification System

- Built an end-to-end object detection pipeline for satellite imagery using YOLOv8 models
- Constructed and preprocessed a large-scale multi-source dataset (296K+ annotations across 8 classes)
- Trained and evaluated YOLOv8 models, achieving up to 78.5% mAP@0.50 with optimized accuracy-speed trade-offs
- Developed an interactive web demo using Gradio for real-time detection with adjustable parameters

Quicklearn: Online Learning and Quiz Platform

- Developed a full-stack web-based learning system during a professional internship
- Built the frontend using Vue.js and the backend using Laravel (PHP), with MySQL for data management
- Enabled instructors to publish courses and quizzes, and learners to track progress and earn certificates

CoinKeeper: Personal Finance and Budgeting App

- Designed a prototype for tracking personal expenses and managing budgets
- Built using JavaScript with MongoDB for secure, scalable data storage
- Implemented features for expense categorization, budget tracking, and visualization of spending trends

CedarUnlocked: Smart Travel and Transport App

- Designed a prototype for Lebanon's first all-in-one travel and public transport app
- Built using JavaScript and integrating Google Gemini API for personalized itinerary generation
- Implemented features for trip planning, curated local recommendations, and mapping of public transport routes and schedules

CERTIFICATE

IEEE WIE Bootcamp – Amazon Mentorship Program

- Earned a Certificate of Participation for completing intensive mentorship sessions
- Gained exposure to industry best practices, innovation in tech, and career development strategies through workshops

EXTRACURRICULAR ACTIVITIES

Outlook – The Official Student Newspaper of AUB, IT and Web Development Team Member

Dec 2025 – Present

- Contributed to the development and maintenance of the official AUB Outlook newspaper website
- Worked on website structure, content management, and technical improvements
- Collaborated with editors and team members to ensure a reliable and user-friendly web presence

AUBMUNC26 – American University of Beirut Model United Nations Conference, Sub-Cabinet

Dec 2025 – Present

- Contributed to the technical planning and execution of AUBMUNC 26
- Assisted in managing and supporting conference technology and digital platforms
- Collaborated with the Tech Team and organizers to ensure smooth technical operations throughout the conference

TECHNICAL SKILLS

- Java Development: Object-Oriented Programming, Algorithms, and Data Structures
- Front-End Development: React, HTML, CSS, and JavaScript.
- Back-End Development: Flask and PHP
- C++
- Python
- Database Management: MySQL, SQLite.
- Development Tools: Git, GitHub, Docker, Jira, and Jenkins.
- Design Tools: Figma.
- Office Software: Microsoft Office (including Excel and PowerPoint).

VALUE-ADDED SKILLS

- Team Collaboration.
- Problem Solving.
- Time Management.

ADDITIONAL INFORMATION

- Languages: Fluent in English and Arabic, with basic knowledge in French (writing, reading, and speaking).
- Interests: reading, soccer, music, and movies.