Haidar Saghir

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EDUCATION

Bachelor of Engineering in Computer Science and Engineering | American University of Beirut | GPA: 3.4/4.0

- Expected Graduation: May 2027
- Dean's Honor List Fall 2024-25

EXPERIENCE

Competitive Programming Technical Officer - ACM AUB Student Chapter | August 2025 – Present

- Served as Technical Officer for the ACM Competitive Programming Chapter, contributing to the planning, technical coordination, and preparation of large-scale regional programming competitions, including LCPC and ACPC, as well as organizing and supporting on-campus programming events, workshops, and training sessions.
- Participated in educational outreach initiatives for Lebanese high school students, delivering hands-on Python programming training sessions focused on core programming concepts and practical coding skills through interactive teaching and live demonstrations.

PROJECTS

ACM Website | October 2025 – Present

- Re-architected the ACM website's content layer into a fully data-driven system, replacing hardcoded board, events, and committee pages with Supabase-backed tables and storage and enabling real-time updates.
- Improved UI/UX by modernizing admin dashboards and public-facing components with responsive layouts, clearer visual hierarchy, and consistent styling to enhance usability and readability.
- Built a secure admin platform using Supabase Auth with email/password authentication, session protection, and CRUD interfaces for managing sections, members, events, and committees, including image uploads to dedicated storage buckets.
- Integrated the Supabase client into the frontend with resilient data-fetching logic that prioritizes live content and gracefully falls back to static data when the API is unavailable.
- Designed and enforced row-level security (RLS) and storage access policies, ensuring public read-only access to published content and restricting write operations to authenticated administrators, with no sensitive secrets exposed to the client.

ClassCast - Multimodal AI System for Lecture-to-Podcast Conversion | August 2025 – December 2025

- Collaborated on an end-to-end multimodal AI system integrating ASR, OCR, and language-model–based fusion to convert lecture videos into enriched transcripts and podcasts.
- Engineered the video processing pipeline with OpenCV, implementing frame extraction and de-duplication to improve OCR quality, and contributed to enhancing the semantic fusion engine.
- Developed FastAPI backend services and text-to-speech outputs, enabling searchable transcripts, semantic Q&A, and podcast-style lecture replay.
- Applied embedding-based semantic search and worked within a Git-based collaborative workflow, incorporating feedback and technical guidance.

AES-128 Visualization and Analysis Tool | August 2025 – December 2025

- Collaborated on an educational AES-128 desktop application exposing internal encryption and decryption steps for learning and debugging.
- Contributed to the development of round-by-round visualization, avalanche effect analysis, and key expansion, supporting the display of intermediate states, bit-level diffusion metrics, and 44 key words.
- Contributed to a cross-platform Electron application built with JavaScript, HTML/CSS, and Node.js, including automated GitHub Actions builds and PDF report generation.

SKILLS AND LANGUAGES

Technical Skills: Java, C++, Python, SQL, HTML, CSS, JavaScript.

Languages: Arabic and English