AHMAD KARNIB

Beirut, Lebanon

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EDUCATION

American University of Beirut   **August 2023 – Expected June 2027**
B.E. in Computer & Communications Engineering
Dean's Honor List

Relevant Coursework   **AUB, Lebanon**

- Data Structures & Algorithms
- Signals and Systems

TECHNICAL SKILLS

Programming Languages: C++, Python, Verilog, Assembly, MATLAB, CSS, HTML
Developer Tools: Visual Studio Code, LaTeX, GitHub, Jira, Figma, Docker, Jenkins, Android Studio Development
Soft Skills: Creativity, Problem-Solving, Communication, Teamwork, Leadership, Strategic Thinking
Languages: English (Fluent), Arabic (Native), French (Fluent), Spanish (Fluent)

PROJECTS

Student Registration App | *Python*   **May 2025**

- Developed a student registration platform with features for course add, drop, and schedule viewing.
- Implemented client–server communication over TCP sockets to handle student requests and real-time updates.
- Built backend logic for course capacities, time-conflict checks, and user authentication.

PharmFind – Medicine Finder and Delivery App | *Flutter, Firebase*   **Sept 2025**

- Applied user-centered design through patient, pharmacist, and driver personas to prioritize MVP features
- Designed MVP features: real-time stock search, pharmacy availability map, delivery scheduling/tracking, prescription validation, and admin analytics
- Leveraged product management and technical skills to scope features, create user flows, and integrate delivery/payment modules

Digital Communication Systems Project | *MATLAB*   **Sept 2025**

- Built MATLAB modules for signal representation, including Nyquist sampling and Fourier series approximation, to demonstrate aliasing and reconstruction accuracy
- Implemented quantization schemes (two-level, uniform multi-level, Lloyd–Max), measuring MSE and analyzing rate–distortion performance
- Integrated modules into an end-to-end digital communication chain, comparing throughput, entropy, and coding efficiency under different quantization methods

RESEARCH EXPERIENCE

Undergraduate Researcher, American University of Beirut (AUB) | **Aug 2025 - Present**

- Conducting research on machine learning methods for transportation mode recognition using smartphone and cellular network data
- Developing resource-efficient and privacy-preserving models by analyzing signal features and mobility patterns
- Exploring applications in mobile sensing, IoT, and smart city systems

WORK EXPERIENCE

IT Assistant, American University of Beirut (AUB) | **Aug 2025 – Present**

- Providing technical support for faculty, staff, and students, ensuring smooth operation of IT systems.
- Assisting in troubleshooting, software installation, and network maintenance to improve efficiency.

Computer Networking Internship, Dar Al Handasah Nazih Taleb & Partners – Lebanon | **Dec 2023 – Jan 2023**

- Conducted hands-on tasks in computer networking, including network setup, troubleshooting, and maintenance.
- Gained practical experience with real-world networking environments and improved technical problem-solving skills.

Art Gallery Assistant (Work-Study Program), AUB Byblos Bank Art Gallery | **June 2025 – Present**

- Led gallery tours and presented artworks to visitors.
- Managed inventory and basic front-desk tasks.
- Supported exhibition setup and artwork preservation.

EXTRA-CURRICULAR ACTIVITIES & VOLUNTEERING

AUB Outdoors Operation Team Member   **May 2025**

- Supported logistics, operations, and crowd management during AUB Outdoors events.

Member, Engineering Student Society – Event Officer   **2024 – Present**