

Khaled Hammoud

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Education

42 Beirut – Level 5	2024 – Present
<i>42 Core Curriculum - Architecture of Digital Technologies Program</i>	<i>Beirut, Lebanon</i>
Lebanese International University	2023 – 2026
<i>Bachelor of Science in Computer Science</i>	<i>Beirut, Lebanon</i>

Experience

AI-Enhanced Senior Track – OnRamp Academy (Forward Mena)	Apr 2026 – Jul 2026
- Completed an AI-enhanced full-stack bootcamp covering Node.js, Express, GraphQL, React, and database design. - Built production-style React and Node.js applications with authentication, state management, and performance optimization. - Applied DevOps, cloud, application security, and Agile/Scrum practices throughout team projects.	

Selected Projects

Gym Management System <i>NestJS, Next.js, Prisma, PostgreSQL, Docker</i>	May 2026 – Jul 2026
- Built a full-stack, multi-tenant gym management platform supporting memberships, subscriptions, sessions, bookings, and check-ins. - Built a NestJS backend and Next.js frontend with shared Zod contracts in a Turborepo monorepo. - Implemented Prisma/PostgreSQL, magic-link authentication, and Docker Compose for Postgres, Redis, and Mailpit.	
RAG Against the Machine <i>Python, BM25, Qwen3-0.6B, Pydantic</i>	Jun 2026 – Jul 2026
- Built a Retrieval-Augmented Generation pipeline for a large codebase using optimized chunking and BM25 retrieval. - Generated structured JSON responses with Qwen3-0.6B, validated using Pydantic models. - Built a Python Fire CLI supporting indexing, search, answer generation, and recall@k evaluation.	
LIU Chat (FYP) <i>Flutter, Node.js, TypeScript, Supabase, WebSockets</i>	Feb 2026 – Jun 2026
- Built a real-time student messaging platform using REST APIs and WebSockets, supporting 700+ chat rooms. - Implemented OTP authentication, JWT sessions, and Supabase RLS policies for secure access. - Implemented end-to-end encrypted messaging using X25519 and AES-256-GCM, preventing server access to message contents.	

Technical Skills

Languages: C, Python, JavaScript, TypeScript, Java, SQL
Frameworks: React, Next.js, NestJS, Flutter, Prisma
Tools: Git, Docker, Linux, VS Code, GDB, Valgrind, Jira
Technologies: PostgreSQL, REST APIs, WebSockets

Languages

English: Fluent
Arabic: Native