

Khodor El Hajj Moussa

Computer Science Undergraduate

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PROFILE

B.S. Computer Science - Antonine University | Expected January 2027

Focused on full-stack development and practical software projects .

EXPERIENCE

Jan 2024 – May 2026	Programming Instructor ,Istay, and Jtech Academy Instructed 5 classes across 3 schools in programming and robotics fundamentals, adapting curriculum to beginner-level students. Delivered hands-on sessions with Arduino, Micro:bit, Tinkercad, Minecraft Education, and Microsoft Arcade to make programming engaging.
Dec 2025 – May 2026	Maths and Physics Tutor Tutored students in mathematics and physics, strengthening their problem-solving and analytical reasoning skills, improving student comprehension and academic performance
April 2025 – Oct 2025	Waiter ,DipnDip Hazmieh Provided exceptional table service in a fast-paced environment, ensuring a pleasant dining experience for guests. Maintained cleanliness and order in the dining area, adhering to hygiene and service standards.

PROJECTS

3D Interactive Portfolio live Portfolio	Interactive 3D portfolio website as a virtual room experience where users explore the scene and interact with a computer screen to view personal information and projects. <i>React Three.js React Three Fiber</i>
Rag System github.com/Rag-System	Multi-tenant RAG platform where users upload PDFs and get cited, LLM-powered answers. Implemented hybrid retrieval, Redis queuing, JWT auth, prompt-injection defenses, and rate limiting. <i>TypeScript FastAPI PostgreSQL Redis Docker</i>
Khadamati github.com/Khadamati	E-government platform digitizing service requests between citizens and municipalities. Features Lebanese ID OCR, Stripe payments, real-time chat, appointment booking, QR tracking, and role-based dashboards with Google Maps integration. <i>Laravel PHP Blade JavaScript CSS</i>
LiraTrack github.com/LiraTrack	Full-stack finance app tailored for Lebanon's mixed LBP/USD economy. Features wallets, expense tracking, OCR receipt scanning, recurring transactions, and PDF exports with Arabic/English UI support. Includes JWT auth, Google sign-in, bcrypt hashing, and optional 2FA. <i>Next.js TypeScript FastAPI PostgreSQL Docker</i>
ASL Translator github.com/ASLTranslator	Real-time ASL translator streaming webcam input from React frontend to FastAPI backend for hand-landmark extraction and live gesture prediction. With static alphabet recognition, dynamic gesture recognition, GPT-2-based word suggestions, where user can select next word using computer vision pinching gestures. <i>React FastAPI Python MediaPipe PyTorch ONNX</i>
Compiler Workbench github.com/CompilerDesign	Desktop workbench visualizing compiler construction: automata design, lexical analysis, grammar parsing, parse tree visualization, semantic analysis, symbol tables, AST inspection, and basic code generation <i>C++ Qt</i>

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, SQL, C++, C#, PHP
Frontend	React, Next.js, Tailwind CSS, HTML/CSS
Backend	FastAPI, REST APIs, JWT, OAuth, TOTP, bcrypt
Databases/Tools	PostgreSQL, MySQL, SQLite, MongoDB, Docker, Git
ML / CV	MediaPipe, OpenCV, PyTorch, ONNX, scikit-learn

LANGUAGES

Arabic	Native
English	Fluent
French	Intermediate