

KHODOR EL HAJJ MOUSSA

Computer Science Undergraduate

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PROFILE

Computer Science undergraduate at Antonine University, focused on full stack development and practical software projects. Built and deployed apps using React, Next.js, TypeScript, FastAPI, PostgreSQL, Docker, and Python, with experience in computer vision, developer tooling, and compiler fundamentals.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C++, C#, PHP

Frontend: React, Next.js, Tailwind CSS, HTML/CSS, Three.js, React Three Fiber

Backend: FastAPI, REST APIs, SQLAlchemy, Alembic, JWT, OAuth, TOTP, bcrypt

Databases & Tools: PostgreSQL, MySQL, SQLite, MongoDB, Docker, Git, pytest

ML / CV: MediaPipe, OpenCV, PyTorch, ONNX, scikit-learn

EDUCATION

Antonine University

B.S. Computer Science

LANGUAGES

Arabic Native

English Fluent

French Intermediate

PROJECTS

3D Interactive Portfolio khodorrdev.shop

React | Three.js | React Three Fiber | Vite

- Interactive 3D portfolio website built as a virtual room experience where users explore the scene and interact with a computer screen to view personal information and projects.

Khadamati github.com/Khadamati

Laravel | PHP | Blade | JavaScript | CSS

- Laravel-based e-government platform that digitizes service requests between citizens, municipalities, and administrators in one secure workflow. It includes Lebanese ID OCR verification, Stripe payments, real-time chat, appointment booking, QR tracking, reports, and role-based dashboards.

LiraTrack lebanese-finance-tracker.vercel.app

Next.js | React | TypeScript | FastAPI | PostgreSQL | Docker

- Full-stack personal finance app for Lebanon's mixed LBP/USD environment: wallets, income/expense tracking, exchange-rate-aware reports, OCR receipt scanning, SMS transaction drafts, recurring transactions, Arabic/English UI, and PDF exports.
- Authentication with email/password, Google sign-in, JWT access/refresh tokens, email verification, password reset, bcrypt hashing, and optional TOTP-based 2FA.

ASL Real-Time Sign Language Translator github.com/Sign-Language-Translator

React | FastAPI | WebSockets | Python | MediaPipe | PyTorch | ONNX

- Real-time ASL translator streaming webcam input from React frontend to FastAPI backend for hand-landmark extraction and live gesture prediction.
- Implemented static alphabet recognition, dynamic gesture recognition, GPT-2-based word suggestions, and multi-frame stabilization to reduce noisy predictions.

GitHub Repo Analyzer github.com/GithubRepoAnalyzer

Python | Click | Rich | GitHub API | pytest | PyPI

- Published Python CLI tool for GitHub repository due diligence: analyzes activity, documentation, maintenance, contributor risk, and ownership concentration.
- Supports recruiter mode, repository comparison, JSON/PDF export, GitHub token support, caching controls, and formatted terminal output.

Compiler Workbench github.com/CompilerDesign

C++17 | Qt 6 | Automata | Lexer/Parser | AST

- Desktop workbench visualizing compiler construction: automata design, lexical analysis, grammar parsing, parse tree visualization, semantic analysis, symbol tables, AST inspection, and basic code generation.

EXPERIENCE

Programming Instructor

2024 — Present

Jtech & Istay

- Taught programming and robotics fundamentals across 5 classes at Val Père Jacques, SSCC Hadath, and Notre Dame De Jamhour.
- Led beginner-friendly sessions using Arduino, Micro:bit, Tinkercad, Minecraft Education, and Microsoft Arcade.