Abdelali Jabri

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Profile

Software Engineer trained at the 1337 (42 Network) with strong foundations in systems programming, backend development, DevOps, and applied AI systems. Currently building an AI-powered learning platform for UM6P students using Retrieval-Augmented Generation (RAG), FastAPI, and modern web technologies. Strong problem-solver with product mindset and startup exposure.

Education

1337 Coding School (42 Network) — Ben Guerir, Morocco
Software Engineering Program — Level 11.55   2023 – Present **High School Abi Baker Al Kadiri** — Salé, Morocco
Baccalaureate in Physical Sciences   2022

Experience & Programs

UM6P × MIT Sandbox — Explorer Program   2025
Selected participant in an entrepreneurship and innovation program focused on MVP development, problem validation, and startup execution. Worked on product ideation, rapid prototyping, and cross-functional collaboration.

Selected Projects

U-Improve — AI-Powered Learning Platform (In Progress)
FastAPI, Python, RAG, ChromaDB, Groq API, Node.js, PostgreSQL, Docker

- Designed a microservice-based AI tutoring platform for UM6P students.
- Built a Retrieval-Augmented Generation (RAG) pipeline: document ingestion, chunking, embeddings, vector storage, and contextual querying.
- Implemented a FastAPI AI service communicating with a Node.js backend via HTTP.
- Enabled personalized AI tutoring based on student profile, study field, and uploaded materials.
- Planned future extensions: voice interaction, quizzes, handwritten notes OCR.

Komet — AI-Powered Conventional Commit Generator
Python, Typer, GitPython, Groq LLM API, Poetry, PyPI packaging

- Developed a CLI tool that analyzes staged git diffs and generates clean, Conventional Commits messages using Groq's fast LLM inference.
- Integrated GitPython for diff extraction and Typer for modern CLI interface.
- Published to PyPI as ikomet for easy global installation via pipx/pip.
- Handled edge cases: large diff truncation, git repo validation, and secure API key loading via environment variables.
- Open-source on GitHub with detailed README, demo, and installation instructions.

Webserv — HTTP Server in C++ (C++98)
Networking, Unix, OOP

- Built an HTTP/1.1 server supporting GET/POST/DELETE, routing, CGI, cookies, and sessions.
- Implemented non-blocking I/O, configuration parsing, and process management.

Minishell — Unix Shell Implementation

C, System Programming

- Implemented pipelines, redirections, environment handling, parsing, and signal management.

Inception — Containerized Infrastructure

Docker, Docker Compose, Nginx, Linux

- Designed a production-like container architecture with isolated services and persistent volumes.

ft_transcendence

Full-stack Web Application

- Multiplayer Pong game with authentication, real-time gameplay, user profiles, and admin features.

Technical Skills

Languages: C, C++, Python, JavaScript, Typescript, Bash
Backend: FastAPI, Node.js, Fastify, REST APIs, HTTP
AI & Data: RAG, LLM APIs, Embeddings, Vector Databases
DevOps: Linux, Docker, Docker Compose, Nginx
Systems: Sockets, processes, pipes, signals
Tools: Git, Makefile, VS Code, Vim

Languages

Arabic — Native
English — Strong proficiency
French — medium