

Bahaeddine Hemmem CHAREN

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Summary

Full stack engineer with experience building scalable web apps from backend APIs to responsive UIs. Skilled in Node.js, PostgreSQL, React, and containerized deployment with Docker and Traefik.

Technical Skills

- **Backend:** Node.js, FastAPI, Microservices, PostgreSQL, Redis
- **Caching & Messaging:** Redis, RabbitMQ
- **Frontend:** React, Next.js, Tailwind CSS
- **DevOps:** Docker, Traefik, Git
- **AI/ML:** PyTorch, TensorFlow, OpenCV
- **Tools:** Supabase, LangChain, Liveblocks
- **Languages:** Python, Typescript, SQL

Key Projects

- Real-Time Collaboration Platform

(GitHub)

 - Built with Next.js, Supabase, Liveblocks real-time engine, Shadcn UI, and TipTap rich text editor.
 - Designed secure authentication and account management.
- Make It Yourself Chatbot Platform

(GitHub)

 - Build a local custom chatbot based on your provided documents.
 - Dynamically switched between open-source LLMs with custom embedding integration.
 - Built RAG-based architecture using LangGraph and Chroma vector DB.
- TTK ePay Python Client

(GitHub)

 - Developed Python SDK for TTK ePay payment gateway integration
 - Implemented secure API communication with proper request signing
 - Added support for multiple payment operations (initiation, verification, status checks)
 - Designed with developer experience in mind including comprehensive documentation
- Algerian eCommerce Backend (Microservices) (current)

(Private Repo)

 - Developement of a containerized microservices system with user, product, cart, order, and payment services.
 - The integration Chargily for CIB/Edahabia payments and Cash on Delivery support.
 - Used Traefik as gateway, Redis for fast-access cart data, RabbitMQ for service messaging.
 - Designed public APIs for guest checkouts and authenticated users.

Education

- National Polytechnic School of Oran

2021–Present

Computer Science Engineering

(Expected 2026)

 - Specialization: Engineering and Management of Information Systems
 - Core Courses: Object Oriented Programming, Microservices, Database Design, Security, Networking, Web Development
- Preparatory Training in Science & Technology

2021–2023

 - Intensive program in advanced mathematics and physics
 - Key Subjects: Algebra, Probability, Thermodynamics

Certifications

- Machine Learning Specialization
- Deep Learning Certification
- Intro to LangGraph
- DevOps Pre-Requisite
- Stanford University & DeepLearning.AI
- DeepLearning.AI
- LangChain Academy
- KodeKloud

Languages

- Arabic (Native)
- English (Fluent)
- French (Advanced)