



ALOUANI HATIM

AI Software Engineering student at 1337 Coding School | 42 Network, passionate about building scalable systems and intelligent solutions, with a strong focus on Machine Learning, NLP/LLMs, Data Science and Big Data, complemented by hands on full-stack development experience

EDUCATION

- Common Core - 1337 Coding School Khouribga (2023 - 2025)
 - Software Engineering student with focus on system programming, algorithms, and full-stack development.
- Excellence Bachelor's Degree in Information Systems and Artificial Intelligence - FP Khouribga (2024 - 2025)
 - Specialization: Computer Science, Artificial Intelligence, Big Data, and Advanced Data Analytics.

TECHNICAL SKILLS

- **Programming & Scripting:** C, C++, Python, Shell Scripting, JavaScript/TypeScript
- **ML & DL:** Scikit-learn, Pandas, Matplotlib, TensorFlow, PyTorch
- **NLP & LLMs:** SpaCy, NLTK, LLaMA, RAG, LangChain
- **Web Development:** React.js, Next.js, Node.js, Tailwind CSS, HTML/CSS, WordPress, Nginx
- **Big Data:** Spark, Hadoop, Kafka, PowerBi
- **DevOps:** Git, Docker, Grafana, Prometheus, ELK Stack
- **Databases:** MySQL, PostgreSQL, MariaDB, SQLite, Cassandra

EXPERIENCE

- AI Software Engineer Intern at A2XCORP (October 2025 - December 2025) - Remote
 - Built AI-AUDIT, a 3D avatar chatbot that functions as an AI assistant, using UNITH, Node.js, Next.js, OpenAI, and PostgreSQL.

CERTIFICATES

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate (2025)

PROJECTS

- **Fully Local Chatbot:** Full-stack web application featuring a fully local AI chatbot, using Fastify, Next.js and SQLite. Implemented RAG pipelines with LangChain and Ollama LLM (Qwen 14B) for intelligent responses, and ensured all data processing and model inference happen locally to preserve privacy and control.
- **Product Recommendation Engine:** Created a recommendation system similar to Amazon, combining TensorFlow, PostgreSQL, and web scraping, fully containerized with Docker.
- **Courses Recommendation System:** Implemented a personalized course recommendation system using Big Data tools, Hadoop, PySpark with the ALS algorithm, Cassandra, and Python for large-scale data processing.
- **COVID-19 Vaccine Sentiment Analysis:** Developed an NLP model using Python to analyze Twitter sentiment about COVID-19 vaccines using NLTK, TF-IDF Vectorizer, and Random Forest Classifier with comprehensive evaluation metrics.
- **Data Warehouse Management:** Implemented a Data Warehouse Management System using Big Data technologies for retail chain analytics, using Hadoop, Cassandra, and Python for efficient data processing and storage.
- **Transcendence:** A real-time multiplayer Ping Pong game built as a full-stack web application using Next.js, Fastify, and TypeScript. The project includes secure authentication, matchmaking, live gameplay with WebSockets, and a modern SPA interface. Fully containerized with Docker, following DevOps best practices for deployment and scalability

ADDITIONAL INFORMATION

- **Languages:** Arabic (native), English (fluent), French (fluent)
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