

Ahmed Khemissa

Software Engineer - AI/ML Oriented

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Professional Summary

Passionate Software Engineer with 3 years of hands-on experience in full stack AI solutions. Strong expertise in training, fine tuning, and deploying LLM based applications using GPT, Gemini, and DALL-E APIs. Strong expertise in Python (7 years of experience), machine learning frameworks, and NLP with a focus on translating complex business requirements into scalable AI solutions. Demonstrated ability to collaborate with cross-functional teams.

Technical Skills

- **Programming Languages:** Python (Advanced), TypeScript/JavaScript, SQL, C++
- **LLMs & APIs:** GPT-4, Gemini 2.5, DALL-E, Claude, Hugging Face Transformers
- **AI/ML Libraries:** PyTorch, TensorFlow, NumPy, Pandas, scikit-learn, LangChain, Transformers
- **Prompt Engineering:** Prompt chaining, prompt tuning, system message crafting, few shot learning
- **NLP & ML:** Natural Language Processing, Model fine tuning, Text generation, Sentiment analysis
- **Cloud & DevOps:** Google Cloud Platform, Docker, Git, MLOps pipelines, Model deployment
- **Frameworks:** FastAPI, Django, Flask, ReactJs, NextJs, NodeJs, ExpressJs, PostgreSQL, MongoDB
- **Tools:** Jupyter, VS Code, Postman, Google Colab, Hugging Face

Education

University Of Science And Technology Houari Boumediene (USTHB)

Master in Artificial Intelligence

2025-Present

University Of Science And Technology Houari Boumediene (USTHB)

Bachelor in Computer Science

2022-2025

Final Year Project: AI-powered full-stack e-learning platform

Key Courses: Machine Learning, AI fundamentals, Algorithms & Data Structures, Information Systems, Software Engineering, OOP, Computer Networks, SQL Databases, Operating Systems, Project Management

Work Experience

Software Engineer (Python) — ThriveTech Solutions

2025 - Present

- Developed and maintained scalable backend systems using FastAPI and Django for internal tools and client-facing applications.
- Created robust automation scripts for streamlining data processing workflows and administrative tasks.
- Engineered advanced web scraping solutions to collect and normalize data from dynamic and secured websites.
- Integrated RESTful APIs and built modular services to support microservices architecture and scalability.

- Collaborated closely with cross-functional teams to gather requirements and deliver efficient, production-ready solutions.

Full-stack Web Developer — Ecsel Expo

2024 - 2024

- Collaborated with a multidisciplinary team to develop the official website for Africa's largest e-Commerce exhibition.
- Implemented responsive design and optimized site performance through collaboration with design and marketing teams.
- Aligned website features with event objectives by facilitating communication between development and event organizers.

Freelance Web Developer

2022 - 2024

- Built custom web applications for multiple clients.
- Developed Google workspace Extensions
- Worked on multiple E-commerce web applications
- Managed client relationships and delivered projects within tight deadlines.

Projects

Eqraa Platform — AI-Powered Arabic E-learning Solution

AI Powered Full-stack Development

- Designed and LLM-based educational platform for Arabic learners.
- Designed sophisticated prompt chains for content generation, assessment creation, and adaptive learning path optimization using Gemini API.
- Implemented interactive tools including a smart dictionary with an accuracy of 84.3%, AI-generated visual learning, CEFR level-based, activities and language test.
- Created a startup from the final year project, enhancing educational impact through innovative technology.

Tech Stack: Python, FastAPI, PostgreSQL, React, Gemini API, DALL-E API, Transformers

Languages

Arabic (Native), **English** (C2 Certificate), **French** (B2 Certificate)