

Ahmed Khemissa

AI Engineer | Full-Stack Developer | Deep Learning | Visual Computing

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Professional Summary

AI Engineer and Full-Stack Developer specializing in Deep Learning, LLMs, and Visual Computing, with 3 years of professional experience across AI and full-stack product development. Fast learner who moves quickly from idea to working product, leveraging modern AI tooling to ship efficiently. Comfortable contributing technical ideas and research alongside leadership, not just executing tickets.

Technical Skills

- **Programming Languages:** Python (Advanced), TypeScript/JavaScript
- **AI/ML Libraries:** PyTorch, TensorFlow, NumPy, Pandas, scikit-learn, LangChain, Transformers
- **Computer Vision:** OpenCV, scikit-image, Pillow, YOLO, Detectron2, U-Net, SAM, GANs, Diffusion Models
- **Cloud & DevOps:** Google Cloud Platform, Docker, Git
- **Frameworks:** FastAPI, Django, Flask, React.js, Next.js, Node.js, Express.js, PostgreSQL, MongoDB
- **Tools:** Jupyter, VS Code, Postman, Google Colab, Hugging Face

Education

University Of Science And Technology Houari Boumediene (USTHB)

Master in AI & Visual Computing

2025 – Present

- **Key Courses:** Computer Vision, Neural Networks & Machine Learning, Image Processing & Analysis, Image Synthesis, Data Visualization, Data Mining, Game Design & Virtual Reality

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

AI Full-Stack Developer — ObserveOne

2026

- Built full-stack features for a QA and testing platform used by 10+ client teams, working in close collaboration with the CEO/CTO on technical direction and product decisions.
- Conducted research and proposed architectural and feature ideas that cut average test-cycle turnaround by ~25% and improved platform reliability under high load.
- Translated client requirements and real-world QA challenges into technical specifications and working implementations, shortening requirement-to-delivery time by ~20%.

Software Engineer (Python) — ThriveTech Solutions

2025

- Developed and maintained scalable backend systems using FastAPI and Django for 5+ internal tools and client-facing applications.
- Created robust automation scripts that saved an estimated 10+ hours per week of manual data-processing and administrative work.
- Engineered advanced web scraping solutions to collect and normalize data from 20+ dynamic and secured websites.
- Integrated RESTful APIs and built modular services supporting a microservices architecture serving thousands of daily requests.
- Collaborated closely with cross-functional teams to gather requirements and deliver efficient, production-ready solutions.

Full-stack Web Developer — Ecsel Expo

2024

- Collaborated with a multidisciplinary team to develop the official website for Africa's largest e-Commerce exhibition, supporting traffic from 5,000+ attendees.
- Implemented responsive design and optimized site performance through collaboration with design and marketing teams, improving page load speed by ~30%.
- Aligned website features with event objectives by facilitating communication between development and event organizers.

Freelance Web Developer

2022 – Present

- Built custom web and e-commerce applications and Google Workspace extensions for 10+ clients.
- Managed client relationships end-to-end, consistently delivering projects on tight deadlines across repeat engagements.

Projects

Eqraa Platform — AI-Powered Arabic E-learning Solution

AI-Powered Full-stack Development

- Designed and built an LLM-based educational platform for Arabic learners, with prompt chains for content generation, assessment creation, and adaptive learning path optimization using the Gemini API.
- Implemented interactive tools including a smart dictionary with 84.3% accuracy, AI-generated visual learning aids, and CEFR-level-based activities and language tests.
- 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)