Adem Youssfi

Computer Science Student

AI Expert — Full Stack Developer — Technical Educator

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Professional Summary

Results-driven Computer Science student with 5+ years of experience in full-stack development and AI. Proven ability to build high-performance, ML-powered applications, lead technical teams, and educate peers through workshops and technical articles. Passionate about developing scalable, well-documented software.

Technical Skills

- **Programming Languages:** Python, Java, C++, JavaScript, SQL, Dart
- **AI & Machine Learning:**
  - *Frameworks:* TensorFlow, scikit-learn, TensorRT, OpenCV
  - *Domains:* Computer Vision (Detection, Tracking), NLP, Predictive Modeling
- **Web Development:**
  - *Frontend:* Angular, HTML/CSS, Tailwind CSS
  - *Backend:* Flask, FastAPI, Spring Boot, NestJS
- **Mobile Development:** Flutter, Android (Java)
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite
- **Developer Tools & Practices:** Git, Agile Methodologies, System Design (UML), API Design, Technical Documentation

Experience & Leadership

Web Development Intern

EIA-Solution — Summer 2024
- Developed over 22 unique web pages and components for a large-scale e-commerce marketplace project within one month.
- Contributed to a significant project that has been under continuous development for two years, demonstrating adaptability and rapid integration into existing complex codebase.
- Gained hands-on experience in production-level web development, collaborating with a professional team.
- Project Repository: github.com/Ad2m1109/Marketplace-E-Commerce-Components

Technical Educator & Workshop Leader

Baccalaureate through University — 2020 - Present
- **Private Tutoring (Baccalaureate Level):** Provided private lessons in algorithmics, problem-solving, and web development, fostering independent learning and strong foundational understanding in students.
- **University Workshop Organizer & Facilitator:** Organized and led comprehensive workshops on Flutter, software design, API/backend architecture, AI/ML, and LLM API integration. Designed hands-on learning, mentored students in industry best practices, and created engaging technical content.

Project Team Leader & System Architect

Academic Projects — 2023 - Present
- Led development teams of 3-5 members in delivering complex software projects from conception to deployment
- Created comprehensive system architecture using UML diagrams (Use Case, Class, Sequence) for project planning
- Developed detailed API documentation and technical specifications using Markdown and LaTeX
- Implemented software design patterns and best practices across multiple programming languages and frameworks
- Managed project timelines, requirements gathering, and stakeholder communication

- Mentored junior developers in technical implementation, documentation standards, and design principles
- Successfully delivered 15+ full-stack applications with complete technical documentation and system diagrams

Key Projects

Computer Vision & Deep Learning
- **Football Match Video Analysis System** — *C++, OpenCV, TensorRT, Deep Learning*
  - Developed a high-performance C++ tool for real-time football video analysis, achieving 95% accuracy in player detection and tracking using deep learning.

Full-Stack AI-Powered Development
- **IntelliManage - Intelligent Project Management Platform** — *Angular, Spring Boot, Spring AI*
  - Architected a full-stack intelligent project management platform using Angular and a Spring Boot (Java 21) backend with Spring AI integration.
  - Implemented JWT-based security and an n8n-powered automation engine, designed for cloud hosting (AWS/Azure/Render).

Mobile Application Development
- **Harmonia - Alzheimer's Patient Support App** — *Flutter, Dart, Privacy-focused*
  - Led a team to develop a privacy-first Flutter app for Alzheimer's patients, featuring offline storage and accessibility features.
  - Recognized with a GitHub star by a prominent Flutter contributor (smit-ai) for code quality and impact.

Explore More Projects
- Over 40 additional projects are available on my GitHub: github.com/Ad2m1109

Certifications & Professional Development
- **32+ Industry Certifications** across AI, Data Science, and Full-Stack Development.
- **Applied Learning:** Continuously applied new skills from professional development in over 40 personal and academic projects, covering advanced topics in computer vision, system architecture, and design patterns.
- **Technical Documentation:** Authored comprehensive guides and tutorials using Markdown and LaTeX, including a complete Rust development guide.
- **System Design Portfolio:** Created extensive UML diagrams and API documentation, showcased in project portfolio.

Education
- **Bachelor of Science in Computer Science**
  ISITCom (Higher Institute of Information and Communication Technologies), Sousse, Tunisia
  Expected Graduation: June 2025 — Current Year: 3rd Year
  Relevant Coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Machine Learning, Web Development, Mobile Application Development, Computer Vision

Languages
- **Arabic:** Native
- **French:** Intermediate (A2 Level)
- **English:** Intermediate (B2 Level)