

Mohamed Aziz Ouerfelli

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EDUCATION

National Higher School of Engineering of Tunis

Tunis, Tunisia

Degree: National Degree of Engineer in Computer Science (MSc equivalent)

- **Expected Graduation:** January 2027
- **Related Coursework:** Data Structures, Algorithms, Object-Oriented Design, Distributed Systems, Operating Systems, Linear Programming, Nonlinear Optimization, Complexity Analysis

PROJECTS

Real-Time Sign Language Recognition :

- **Accomplished** high-accuracy hand sign recognition **as measured by** real-time inference performance **by doing** AI model training, exploring dataset augmentation, and optimizing model architecture using OpenCV and Python.
- **Skills:** Machine Learning, Deep Learning, OpenCV, Python.

Freelance Platform – Full-Stack Web Application (*Tech Stack:* Angular, Node.js, Express, MongoDB):

- Designed and implemented user registration and profile management features for both freelancers and clients, including support for portfolios and experience listings.
- Developed project publishing and search functionalities allowing clients to post detailed job listings and freelancers to apply based on their skills.
- Built a proposal system enabling freelancers to submit applications and clients to review, shortlist, and select candidates.
- Integrated a secure authentication system using JWT to ensure safe access control and user session management.
- Developed real-time messaging and a project dashboard for effective project tracking and collaboration.
- Added a notification system to keep users informed about new projects, messages, and payments.

ChatGPT-Powered Chatbot

- Gained experience with API integration and managing user inputs across extended conversations.
- Faced challenges such as rate limiting, conversation length management, and unexpected inputs.
- Overcame these by implementing token management, optimizing prompts, and adding structured error handling.
- Achieved improved response relevance, reduced latency, and an overall smooth user experience

Technologies: Node.js, OpenAI API, dotenv, readline-sync

Skills: API integration, user interaction handling, chatbot optimization, error handling, communication, logical thinking, UX awareness

SKILLS

- **Programming Languages:** Python, C++, JavaScript (Node.js), PHP, C
- **Software Development:** Object-Oriented Programming (OOP), Web Development (HTML5, Angular, PHP, Node.js)
- **AI & Machine Learning:** Natural Language Processing (NLP), Deep Learning, TensorFlow, OpenCV, Pandas, OpenAI API
- **Databases:** MySQL, Power AMC, Oracle Database, MongoDB.
- **Cybersecurity:** Secure Coding, Web Security, Penetration Testing, Reverse Engineering, Binary Exploitation.

Leadership Experience

Competitive Programming Club – ENSIT Vice President

- **Led** a team of **20+** competitive programmers, increasing club participation by **45%** and securing Top 3 rankings in multiple national competitions through strategic coaching and mentorship.
- **Mentored** **25+** members in problem-solving and algorithm design, **raising** competitive programming success rate by **60%** through structured training and one-on-one coaching.

IEEE Computer Society – ENSIT *Active Member & Event Leader*

- **Earned trust** by actively organizing and leading IEEE events, including Extreme 18, while collaborating with student engineers to ensure smooth and efficient execution.
- **Demonstrated leadership** by consistently taking on key roles in nearly all IEEE events at ENSIT.