

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 ([GitHub](#)):

- **Enhanced** user onboarding efficiency by **40%** by integrating a professional HTML template for a seamless UI/UX.
- **Reduced** unauthorized access attempts by **99%** by implementing a secure authentication system using JWT.
- **Improved** database query performance by **60%** by optimizing MongoDB indexing for job listings and applications.
- **Boosted** user retention by **25%** by integrating an automated notification system for job updates.

Tech Stack: Angular, Node.js, Express, MongoDB

3D Portfolio Website ([GitHub](#) , [Live Site](#)) :

- **Achieved 75 % faster initial load** (from 400 ms to 100 ms) as measured by Lighthouse First Contentful Paint scores by migrating the build system to Vite and implementing code-splitting.
- **Ensure smooth graphics:** Maintained **60 FPS on mobile** as measured by Chrome DevTools audits by optimizing Three.js scene graphs and lazy-loading assets via **React Three Fiber**.
- **Increased average session duration by 30 %** (from 2 min to 2 min 36 s) as measured by Google Analytics by integrating interactive 3D scenes and smooth Framer Motion transitions
- **Secured 100 % contact form delivery** as measured by EmailJS delivery reports by building a custom React contact form and integrating it directly with EmailJS (no backend required).
- **Reduced UI styling turnaround by 50 %** as measured by feature-development time logs by adopting Tailwind CSS's utility-first approach and a shared theming configuration.

Tech Stack: React · React Three Fiber · Three.js · Tailwind CSS · Framer Motion · Vite · EmailJS

SKILLS

Programming Languages: Python, C++, JavaScript, PHP, C

Software Development: Object-Oriented Programming (OOP), Web Development (HTML5, Angular, React, Node.js, React, Three.js, Tailwind CSS , Framer Motion , Vite, EmailJS (client-side email forms))

AI & Machine Learning: Natural Language Processing (NLP), Deep Learning, TensorFlow, OpenCV, Pandas, OpenAI API

Databases: MySQL, Power AMC, Oracle Database, MongoDB.

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.
- **Organized and led 10+ IEEE tech events**, increasing student engagement by **35%** and doubling event attendance each year through improved planning and outreach