Mohamed Aziz Ouerfelli

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Skills

• **Programming Languages:** Python, C++, JavaScript, TypeScript, PHP, C, C#
• **Web Technologies & Frameworks:** HTML5, CSS3, Tailwind CSS, Angular, React, Node.js, Three.js, Vite, .NET, EmailJS
• **AI & Data Science:** TensorFlow, OpenCV, Pandas, Deep Learning, Natural Language Processing, OpenAI API
• **Databases & Data Modeling:** MySQL, MongoDB, Oracle Database, NoSQL, SQL, Power AMC
• **Software Engineering:** Git, Object-Oriented Programming (OOP), RESTful APIs, Microservices, Software Architecture, Full-Stack Development, Responsive Design
• **Languages:** Arabic , English , French

Experience

Software Engineer Intern
Nach Deutschland Consulting — Tunis, Tunisia | *07/2025 – 08/2025*

- **Designed and developed** a full-stack web application using **Flask (Python)**, **React**, and **SQL** to manage customers, services, expenses, and revenue.
- **Centralized** client and financial operations into a single platform, significantly improving task efficiency and data accuracy.
- **Replaced** manual workflows with automated processes, reducing service tracking time by **over 70%**.
- **Delivered** a responsive, intuitive user interface and a robust backend to support real-time updates and data integrity.
- **Enhanced** the **company's revenue** potential by accelerating service management and streamlining operational decisions.

Software Engineer Intern
Poulina Group Holding — Tunis, Tunisia | *06/2025 – 07/2025*

- **Developed** a centralized authentication system using **.NET Core**, **C#**, **SQL Server**, and **Angular**, enabling secure user and role management across multiple applications.
- **Developed** and integrated **JWT-based authentication** with robust **role-based access control**, supporting dynamic redirection and multi-app session handling.
- **Designed** and deployed **RESTful APIs** for user, role, and application management using **Entity Framework Core**, improving system modularity and scalability.
- Built a responsive **Angular** admin dashboard with secure routing, real-time data binding, and seamless API communication.
- Delivered a modular login application integrated with a test client app to validate cross-app authentication flow and session state.
- Conducted full-cycle testing, error handling, and UX enhancements to ensure reliable access control and a smooth login experience

Education

Higher National Engineering School 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

Freelance Platform – Full-Stack Web Application (GitHub):

- **Enhanced** user onboarding efficiency by **40%** by integrating a professional HTML template for a seamless **Angular-based** UI/UX experience.
- **Reduced** unauthorized access attempts by **99%** through a secure **JWT authentication** system built with **Express.js** and **Node.js**.
- **Improved** database query performance by **60%** by optimizing **MongoDB** indexing for job listings and applications.
- **Boosted** user retention by **25%** with an **automated job update notification system** implemented on the backend.

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
- **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.