Mohamed Aziz Ouertatani

Computer Science Engineering Student – Data Science
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Profile

Computer Science Engineering student specializing in Data Science, currently in the 4th year of a 5-year state engineering program. Strong foundation in programming, data analysis, and full-stack web development, with hands-on experience in real-world projects and professional environments. Disciplined, fast learner, and comfortable working in demanding technical settings.

Education

ESPRIT – École Supérieure Privée d'Ingénierie et de Technologies
Engineering Degree in Computer Science (Data Science)
2021 – Present | Year 4 of 5 (State Engineering Program)

L'École Arabe Jordanienne – Jordanian System
General Secondary Education Certificate Examination (Experimental Sciences)
2019 – 2021 | General Average: 76%

Experience

iTransform365 – Next.js Developer

May 2024 – August 2024 | Lac 1, Tunis, Tunisia - Developed and maintained scalable web applications using Next.js - Collaborated with cross-functional teams to deliver high-quality solutions

Swiver – Front-End Developer

June 2022 – April 2023 | Centre Urbain Nord, Tunis, Tunisia - Gained hands-on experience building web applications using React.js and TypeScript. - Worked with a team of engineers on **Swiver**, a business management platform for invoicing and stock management. - Implemented responsive UI components for swiver.io using React.js and Bootstrap. - Contributed to multilingual support (Arabic, English, French),

improving accessibility for a wider audience. - Implemented and optimized component logic, enhancing functionality and user experience. - Used Git for version control and collaborated effectively within an engineering team. for invoicing and stock management - Built responsive user interfaces and implemented multilingual support - Created and optimized component logic to improve functionality and user experience - Worked effectively both independently and within a team of engineers

Swiver – React.js Developer Intern

June 2022 – August 2022 | Centre Urbain Nord, Tunis, Tunisia - Gained hands-on experience in building web applications - Worked on UI responsiveness, translation features, and component logic - Improved overall accessibility and usability of the platform

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Technical Skills

Programming Languages:
HTML5, CSS3, JavaScript, TypeScript, PHP, C, C++, Java, SQL

Libraries & Frameworks:
React.js, Node.js, Express.js, Fastify, Next.js, Bootstrap, Symfony

Data & ML:
Python, Pandas, NumPy, scikit-learn, Statistics, R, R Markdown

Databases:
PostgreSQL, MongoDB, Neo4j, SQL Server, Oracle

Tools & Platforms:
Git & GitHub, VS Code, Docker, MLflow, Makefile, Supervisor, Power BI, Power Query, Google Data Studio, Adobe Photoshop, Adobe Illustrator

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Certifications

- MongoDB Node.js Developer Path
- Neo4j Fundamentals
- CCNA: Switching, Routing, and Wireless Essentials

Projects

ML Project – MLOps Pipeline

Role: MLOps Engineer
- Built an end-to-end ML pipeline with experiment tracking and containerized deployment. - Implemented

MLflow for experiment tracking and artifact versioning. - Deployed a Dockerized inference service with Supervisor-managed processes. - **Technologies:** Python, scikit-learn, MLflow, Docker, Joblib, Makefile, Supervisor

Full-Stack Web Application

Role: Full Stack Developer
- End-to-end full-stack application with authentication and user management. - Backend built with Fastify and TypeScript, PostgreSQL database. - Frontend developed using Next.js and Tailwind CSS. - **Technologies:** Fastify, TypeScript, PostgreSQL, Next.js, Tailwind CSS

FLOCK OFF – E-Commerce Platform

Role: Full Stack Developer
- Developed a MERN-stack e-commerce platform enabling users to browse, purchase, and manage products. - Implemented backend services for product, user, and order management. - Built an admin dashboard for stock and order control. - **Technologies:** React.js, Node.js, Express, MongoDB, Bootstrap

Business Intelligence Dashboards

Role: Data Analyst
- Performed exploratory data analysis and dataset cleaning. - Designed interactive dashboards using Power BI and Power Query. - Published dashboards using Google Data Studio. - **Technologies:** Power BI, Power Query, Google Data Studio, EDA

Data Analysis Projects

Role: Data Analyst
- Conducted statistical analysis and hypothesis testing. - Produced reproducible reports using R Markdown. - **Technologies:** R, R Markdown, Python, Pandas, NumPy, Statistics

PhotoCube Shop

Role: Full Stack Developer
- Built a web platform for showcasing and selling custom photo cubes. - Implemented image upload, product selection, and order processing. - **Technologies:** React.js, Node.js, Express, MongoDB, Bootstrap

Share and Care – Charity Management Application

Role: Desktop Application Developer
- Developed a desktop application for charity management using C++ and Qt. - Implemented PDF generation, QR code encoding/decoding, and statistical features. - **Technologies:** C++, Qt, Arduino

WASHA Website

Role: Front-End Developer & Database Engineer
- Collaborative academic project developed during the 2nd year of engineering studies. - Built responsive

UIs with HTML and Bootstrap. - Implemented CRUD operations using PHP and managed data with Oracle. - **Technologies:** HTML, Bootstrap, PHP, Oracle, Git

The Motherland – 2D Game

Role: Game Developer & Hardware Integration
- Collaborative 2D game project developed during the 1st year. - Implemented game logic using C and SDL. - Designed visual assets with Adobe tools and integrated Arduino-based joystick controls. - **Technologies:** C, SDL, Adobe Suite, Arduino

Languages

- Arabic: Native / Bilingual
- English: Fluent / Full Professional
- French: Basic

Interests

Data Science, Software Engineering, Cybersecurity, Fitness & Martial Arts, Self-development