

Moad Tellami

moadtell@gmail.com | +212 693 56 69 07 | Casablanca, Morocco



Full-stack Software Engineer with 2+ years of experience shipping production web applications and backend services, with hands-on experience integrating AI models into real engineering workflows.

Experience

Software Engineer – BCG

Jan 2026 – Jul 2026

Internship

Casablanca - Morocco

Geospatial Risk Assessment Platform

- Built map-based risk visualizations — wildfire, drought, earthquake, and other environmental hazards, using **React**, **Tailwind CSS**, and **Mapbox GL**, plotting environmental data to support risk assessment for investment decisions.
- Implemented metrics visualizations using **Chart.js**, translating client-confirmed Figma designs into responsive UI in collaboration with the UI/UX team.
- Implemented backend REST API endpoints and risk calculation logic in **Django** with **PostgreSQL**, and integrated a trained LLM into the risk assessment pipeline to enrich environmental risk scoring.

Full Stack Developer – Arias Tech Solutions

Dec 2024 – Dec 2025

Full-time

Marrakesh - Morocco

Marine Ecosystem Monitoring Platform

- Built frontend features — IoT device management, protected area creation, and investor-facing area health views — for a government ocean conservation platform, using **React**, **Tailwind CSS**, **Shadcn UI**, **Mapbox GL** for geospatial data, and **AmCharts** for species and environmental metrics.
- Implemented backend REST API endpoints and modules in **NestJS**, working with **GeoJSON** data across **MongoDB** and **Redis** caching to efficiently serve large environmental datasets.
- Built an **MQTT** microservice to ingest real-time telemetry from ocean sensors and forward it to a **Kafka** server for downstream processing.

Oil Spill Detection Platform

- Contributed to connecting the data science team's satellite spill data into the platform and built the alerting and visualization features, using **NestJS**, **Next.js**, and **PostgreSQL**.

Full Stack Developer – Arias Tech Solutions

Jun 2024 – Dec 2024

Internship

Marrakesh - Morocco

Data Visualization Platform

- Built dashboard UI enabling project managers to create custom multi-source visualizations — including charts, maps — using **Angular**, **PrimeNG**, **Tailwind CSS**, and **NgRx**, giving monitoring stations a unified view of monitored areas.
- Integrated data from multiple source types (message brokers, databases, files, and sockets) into the visualization layer, using **AmCharts** and **Mapbox GL JS** for chart and map rendering.
- Implemented backend REST API endpoints and data access layers in **NestJS** with **MongoDB**, and integrated **Keycloak** authentication with role-based access control.

Education

Digital Technologies Architect Program – UM6P/1337

Oct 2022 – Dec 2024

Student

Ben Guerir - Morocco

Completed an intensive, project-based computer science program covering software development, algorithms, system design, and networking, with systems-level work in C/C++ and hands-on use of Linux, Bash, Git, and Docker — alongside data structures, databases, operating systems, network protocols, and security.

Skills

Programming Languages: JavaScript/TypeScript, Python, C/C++

Frontend: React/Next.js, Angular, Tailwind CSS/Shadcn UI, Mapbox GL, Vitest

Backend: NestJS, Django, Keycloak/JWT, Prisma ORM/Mongoose, WebSockets, Pytest

Databases: PostgreSQL, MongoDB, Redis

Tools & DevOps: Linux/Bash, Git, Docker, GitHub Actions

Languages

Arabic: Native

English: Professional proficiency