

Amine OUADAF

Second-year engineering student in Computer Science and Data Science

amine.ouadaf683@gmail.com +212 659-726608 amine-ouadaf https://am-ouadaf.netlify.app

Passionate about building intelligent systems and turning data into impactful solutions. I continuously strengthen my technical expertise to design and deliver innovative, real-world software and AI-driven systems.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, TypeScript, R

Backend & APIs: Spring Boot, FastAPI, Jakarta EE, REST APIs

Frontend: Angular, React, HTML, CSS, Tailwind CSS

Databases: MySQL, Microsoft SQL Server, PostgreSQL, MongoDB

AI: Machine Learning, Deep Learning, NLP, RAG, Scikit-learn, TensorFlow, PyTorch

DevOps & Cloud: Git, GitHub Actions, CI/CD, Docker, Kubernetes

Data Engineering: ETL, Data Modeling, Apache Kafka

PROFESSIONAL EXPERIENCE

09/2025
France (Remote)

Software Engineer Intern — SecurePath Consulting

- Contributed to a cyber threat intelligence system by integrating and enriching data from multiple trusted sources.
- Designed an LLM-based pipeline to detect and manage duplicate threat data, improving data quality and system efficiency.
- Developed unit/integration tests and Swagger API documentation, enhancing maintainability and developer adoption.

08/2025
Safi, Morocco (On-Site)

AI Software Developer Intern — OCP Group

- Designed an AI-powered helpdesk chatbot using RAG, NLP intent classification, and OpenAI models for intelligent IT support automation.
- Architected a microservices-based system with WebSockets, REST APIs, and secure JWT/OAuth authentication.
- Integrated the chatbot with Jira REST APIs to handle the support ticket lifecycle via a conversational interface, reducing response time and improving IT support efficiency.

04/2025 - 07/2025
Casablanca, Morocco (Hybride)

Full-Stack Developer Intern — NextMindz

- Architected and developed a scalable full-stack AI-powered CRM using React, TypeScript, and Supabase, delivering modular architecture and responsive user interfaces.
- Designed and implemented core SaaS features including secure authentication, role-based access control, comprehensive sales pipeline management with Kanban boards, lead tracking, scheduling, proposal generation, and invoice management with PDF export capabilities, team collaboration features, and Stripe subscription payments.
- Integrated a RAG-based intelligent assistant allowing users to ask questions about their data and receive contextual answers within the platform.

EDUCATION

2024 – Present
Mohammedia, Morocco

Engineering Degree in Computer Science and Data Science
Faculty of Sciences and Techniques of Mohammedia (FSTM)

2021 – 2024
Safi, Morocco

Bachelor's Degree in Mathematical Sciences and Applications
Cadi Ayyad University

2020 – 2021
Safi, Morocco

High School Diploma in Physical Sciences
Al-Hidaya Islamia High School

KEY PROJECTS

Smart Energy Management System (SEMS)

- IoT-based energy management platform enabling real-time data collection, analytics, and anomaly detection across millions of sensor readings, with intelligent alert generation and energy consumption optimization.
- Microservices architecture: 7 Spring Boot services with asynchronous messaging using Kafka, REST communication via OpenFeign, API Gateway secured with JWT, service discovery using Eureka, and resilience patterns (Circuit Breaker, Rate Limiting).
- **Tech Stack:** Spring Boot, Spring Cloud, Apache Kafka, TimescaleDB, MongoDB, Redis, Angular 17, Docker, Maven.

E-commerce Spending Prediction — Full-Stack ML Pipeline

- Built a machine learning pipeline (Linear Regression) on customer data.
- Developed a FastAPI REST API with prediction and batch endpoints, including data validation.
- Designed an interactive Streamlit interface with visualizations and confidence interval analysis.
- **Tech Stack:** Python, Scikit-learn, FastAPI, Streamlit, Pandas, NumPy.

LANGUAGES

English **French** **Arabic**