

Mossab Arektout

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Education

École Nationale Supérieure d'Informatique et d'Analyse des Systèmes (ENSIAS)

Rabat, Morocco

Engineering Degree in Software Engineering

Expected Graduation: 2026

Relevant Courses: Software Development, Cloud Computing, Databases and Data Analysis, Information Systems Security, Data Warehousing.

Professional Experience

Oracle (MADC)

Casablanca, Morocco

Software Engineer Intern

June 2025 – September 2025

- Collaborated with an international team on the development of the GitHub Compliance Audit Service (GCAS), a cloud-native tool ensuring compliance of Oracle's open-source repositories.
- Worked directly with the backend team to design and integrate new features.
- Developed RESTful APIs for GCAS backend using DropWizard, improving compliance checks across 500+ repositories.
- Analyzed and resolved DevOps pipeline issues, increasing system reliability.

CBI

Casablanca, Morocco

AI Software Engineer Intern

June 2024 – August 2024

- Developed an automated invoice data recognition and extraction system.
- Applied NLP and OCR techniques to improve structured data extraction accuracy.
- Integrated the solution into the existing system to automate document processing workflows.

Academic Projects

Observability Project – Microservices Monitoring

2025

- Designed a full observability stack using Prometheus, Loki, Tempo, OpenTelemetry, and Grafana.
- Containerized 6 Spring Boot microservices using Docker.
- Implemented full visibility across metrics, logs, and traces for distributed systems.

ShopNow – E-commerce Platform

2024

- Designed and implemented a scalable multi-vendor e-commerce platform using Java EE.
- Implemented secure authentication and role-based access control.
- Optimized MySQL database schema to enhance query performance.

Smart Waste Management System (IoT + AI + Mobile App)

2024

- Led a team of 4 in developing an intelligent waste management system.
- Personally designed and built the AI model for automatic waste classification (paper, metal, plastic).
- Coordinated IoT sensor integration to monitor bin levels and optimize collection routes.
- Supervised the development of the mobile app for real-time monitoring and collection tracking.

Skills

Programming: Java, Python, C, PHP, SQL

Databases: MySQL, PostgreSQL, MongoDB, OracleDB, Elasticsearch

Cloud & DevOps: Oracle Cloud, Docker, Prometheus, Grafana, OpenTelemetry, CI/CD, Git

Frameworks: Java EE, Spring Boot, Laravel, Flask

Other: Agile, Microservices Architecture, Test-Driven Development

Languages: French, English, Arabic

Extracurricular Involvement

CINDH Association

Rabat, Morocco *Active Member*

2023 – Present

- Participated in humanitarian initiatives to support people in need and promote social solidarity.

ENSIAS IT Club

Rabat, Morocco *Head of Technical Cell*

2024 – Present

- Led a team of developers to organize coding workshops.
- Mentored students in software development best practices and emerging technologies.