MESBAH Nada

Software Engineering Student – ENSIAS
Seeking a 6-month final-year internship (PFE) starting February 2027
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Education

École Nationale Supérieure d'Informatique et d'Analyse des Systèmes – ENSIAS **September 2024 – Present**
State Engineering Degree in Software Engineering (GL) *Rabat*

Faculté des Sciences de Meknès – FSM **September 2023 – July 2024**
Bachelor's Degree (Licence d'Excellence) in Data Science and Artificial Intelligence (SDIA) *Meknès*

École Supérieure de Technologie de Fès – ESTF **September 2021 – June 2023**
University Diploma of Technology (DUT) in Software Engineering (GL) *Fès*

Professional Experience

Software Engineer Intern **July 2026 – September 2026 (3 months)**
PortNet S.A. *Casablanca*

- Built an automated pre-screening pipeline for client-registration dossiers: hybrid text extraction (PyMuPDF, PaddleOCR), fuzzy name matching and OpenCV stamp/signature detection.
- Implemented a Customs/PortNet rules engine with audit trail and manual override; the asynchronous design (FastAPI, RabbitMQ, MinIO) processes a complex dossier in about 35 s per worker.
- **Technologies:** Python, FastAPI, RabbitMQ, MinIO, PaddleOCR, OpenCV, RapidFuzz, Docker.

Full Stack Developer Intern **June 2025 – July 2025 (2 months)**
Marketing Confort *Fès*

- Developed the improvement-management module of BrainBoost's back-office: 9 REST endpoints in a Spring Boot microservice with JWT/role-based security, PostgreSQL and AWS S3.
- Built the Next.js/TypeScript Kanban interface (drag-and-drop, filters, comments, uploads) in 2-week Scrum sprints.
- **Technologies:** Spring Boot, PostgreSQL, AWS S3, Next.js, TypeScript, Tailwind CSS, Jira, GitLab.

Frontend Developer Intern **April 2023 – June 2023 (2 months)**
MOENN Technologies *Casablanca*

- Developed the frontend of a recipe web application with Next.js and TypeScript, including dynamic search and a responsive layout.
- Worked in Scrum with YouTrack tickets, GitLab merge requests and code reviews.
- **Technologies:** Next.js, React, TypeScript, Tailwind CSS, Figma, YouTrack, GitLab.

Academic Projects

FoundersSync – Co-founder Matchmaking Platform **March 2026 – May 2026 (3 months)**
ENSIAS – Team Project *Rabat*

- Built a co-founder matchmaking platform on microservices (6 Spring Boot/Node.js services, API Gateway) with JWT authentication, Socket.IO chat and RabbitMQ events.
- Containerized the 15-container stack with Docker Compose and provisioned AWS infrastructure (VPC, EC2, RDS) with Terraform.
- **Technologies:** Java 21, Spring Boot, Node.js, Next.js, PostgreSQL, MongoDB, RabbitMQ, Terraform, AWS.

Local RAG (Retrieval-Augmented Generation) – LexIA **March 2026 – June 2026 (4 months)**
ENSIAS – End-of-Year Project (PFA) *Rabat*

- Built LexIA, a 100% local multilingual RAG platform (Qwen 2.5, bge-m3, LlamaIndex, ChromaDB) with hybrid retrieval, cited sources and a strict "documents only" mode.
- Developed a FastAPI backend with JWT/RBAC and a Next.js interface; evaluated on 30 questions: 100% Top-5 retrieval accuracy, RAGAS context recall 0.91.
- **Technologies:** Python, FastAPI, LlamaIndex, ChromaDB, Ollama, SQLite, Next.js, Docker.

Secure Config & Audit Hub – Zero Trust Microservices **November 2026**
ENSIAS – DevSecOps Project *Rabat*

- Designed 3 Java microservices secured with Zero Trust: each service validates the JWT itself, using Keycloak (OAuth2/OIDC) and role-based access control.
- Added a service token for inter-service calls, an audit log of allowed and denied access, and automated security tests (401/403).
- **Technologies:** Java 17, Spring Boot, Spring Security, Keycloak, OAuth2/OIDC, JWT, Docker, Maven.

Technical Skills

- **Languages:** Java, Python, SQL, JavaScript, TypeScript.
- **Infrastructure & Data:** PostgreSQL, MySQL, MinIO, RabbitMQ, ChromaDB, MongoDB.
- **AI & OCR:** LlamaIndex, Ollama, Sentence-Transformers, PaddleOCR, OpenCV.
- **Frontend & Design:** React, Next.js, Tailwind CSS, Material-UI, Bootstrap, Figma.
- **DevOps & Cloud:** Docker, Docker Compose, AWS, Terraform, Git, GitLab, Jira, Scrum, UML.
- **Backend & Security:** Spring Boot, Spring Security, OAuth2/OIDC, Keycloak, JWT, RBAC, FastAPI, Node.js, Microservices, ASP.NET, SignalR, Django.