

IBTIHAL CHEMLALI

Software Engineering and Intelligent Systems Engineering Student

Seeking a PFE Internship — 5 to 6 months

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Profile

Fifth-year engineering student in Software Engineering and Intelligent Systems, focused on full-stack development and artificial intelligence, with experience in designing web applications and integrating AI solutions.

Education

National School of Arts and Crafts (ENSAM), Meknes 2022 – 2027

Engineering Degree – Software Engineering and Intelligent Systems (GLSI), 5th year

Baccalaureate in Mathematical Sciences, Option A 2020 – 2021

Lycée Imzouren

Professional Experience

ONCF – Pre-Graduation Internship (PFA) Jul. – Aug. 2026, Rabat

Development and integration of features for AuditFlow, a platform for the digitalization of internal audit

- Developed the "Audit Universe & Annual Planning" and "Preparation & Scoping" modules, including risk management and validation workflows
- Integrated AI features to assist with risk assessment, planning and mission preparation

Technologies: ASP.NET Core, Entity Framework Core, Next.js/React, PostgreSQL, Python/FastAPI.

Génération Maroc Technologie (GMT) – Introductory Internship Jul. – Aug. 2025, Rabat

Development of a web application for commercial management

- Developed features for managing sales, purchases, inventory, customers and suppliers
- Designed REST APIs, handled data persistence, implemented JWT authentication with roles, and generated PDF/Excel documents

Technologies: Spring Boot, Spring Data JPA/Hibernate, React, MySQL, JWT.

Projects

ASL Translator – American Sign Language (ASL) Recognition and Translation 2026

- Developed a ResNet50 / Transfer Learning model to recognize 39 static sign classes, reaching 92.57% accuracy
- Recognized dynamic signs from MediaPipe keypoint sequences using a BiLSTM model, reaching 94.72% accuracy
- Integrated the models into a web application enabling real-time ASL recognition.

Technologies: Python, ResNet50, MediaPipe, BiLSTM, React, Flask, MongoDB.

QUIZART – Online Exam Management Platform (ENSAM) 2025 – 2026

- Developed an online exam management platform with secure authentication
- Designed a hybrid data architecture and asynchronous handling of concurrent submissions

Technologies: Spring Boot, Spring Security, React, MySQL, MongoDB, JWT, RabbitMQ.

Technical Skills

- Languages: Java, Python, JavaScript / TypeScript
- Backend: Spring Boot, ASP.NET Core, Flask, FastAPI
- Frontend: React, Next.js
- Databases: MySQL, PostgreSQL, MongoDB
- Tools: Git / GitHub, Docker, Postman, Swagger
- Methodologies: Scrum

Languages

Arabic: native | French: fluent | English: intermediate