



# Mohammed EZ-ZOUAK

SOFTWARE ENGINEER

Casablanca, Morocco

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## Summary

Junior Software Engineer with experience in enterprise and industrial environments, working on backend-heavy web systems and internal platforms. Strong foundation in Python/Django, relational databases, and system evolution under real production constraints. Comfortable in multi-client ESN contexts, legacy system modernization, and direct client interaction.

## Experience

### ITSS Paris

JUNIOR SOFTWARE ENGINEER

Casablanca, Morocco

Aug. 2025 – Present (CDI)

- Contributed to the development of **IJConnect**, successor of the legacy **IJStats** platform, ensuring functional and data synchronization during the transition period.
- Handled backend responsibilities including **business logic implementation, socket-based features, and database migrations** within a Django-based system.
- Resolved backend performance and stability issues (slow SQL queries, connection timeouts, saturated connection pools) by analyzing production workloads and applying indexing and query optimization strategies.
- Worked in a **multi-client ESN environment**, delivering features for organizations such as IJ France, SIMV, CIDJ, PSE, Mairie de Champigny, and IJBOX.
- Participated in regular **client-facing meetings** to clarify functional requirements and translate operational needs into technical solutions.

### Lear Corporation

SOFTWARE ENGINEER INTERN

Kénitra, Morocco

Feb. 2025 – Jul. 2025

- Designed and developed an **internal web platform** to digitize recruitment, training, and certification workflows, replacing Excel-based and paper processes.
- Implemented automated evaluation modules and notification mechanisms to track trainee progress and certification validity.
- Processed and transformed **production logs into operational dashboards** used by factory staff for real-time monitoring.
- Developed a computer-vision-based defect detection prototype to support quality control in a **Just-In-Time** manufacturing environment.

### Twins Groupe

Fès, Morocco

FREELANCE SOFTWARE DEVELOPER

Jan. 2025 – Feb. 2025

- Developed backend features and frontend templates using **PHP/Symfony** for institutional and public-sector web platforms.
- Delivered a production-ready solution aligned with client functional and structural requirements.

## Education

### ENSA Tétouan

Tétouan, Morocco

STATE ENGINEERING DEGREE (INGÉNIEUR D'ÉTAT), COMPUTER SCIENCE

2020 – 2025

- Final Year Project:** Computer vision defect detection for manufacturing quality control.

## Technical Skills

**Backend & APIs** Python (Django), Java (Spring Boot), PHP (Symfony), REST APIs, WebSockets

**Databases** PostgreSQL, MySQL, SQL optimization, indexing, database migrations, query performance tuning

**Web** React, JavaScript, HTML, CSS, responsive design

**Data & AI** ETL concepts, BigQuery, operational data processing, computer vision, YOLO, OpenCV

**DevOps & Tools** Git, Docker, Linux, CI/CD, Redis, Nginx, debugging & profiling

**Methodologies** Agile development, client requirements analysis, legacy system modernization

## Languages

Arabic — Native | English — Fluent (C1) | French — Fluent (C1)