

# Backend developer

## MOHAMED ZINE EL ABIDINE KACEM

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## PROFESSIONAL SUMMARY

Results-driven **Backend/Full-Stack Engineer** with over 4 years of experience specializing in **Python, Django, FastAPI, and PostgreSQL**. Proven track record of designing scalable microservices, optimizing REST APIs, and automating complex business workflows using **Celery and Redis**. Strong background in system architecture, resolving backend bottlenecks, and increasing test coverage from 18% to 86% to ensure production-grade reliability for platforms serving 8,000+ users.

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), SQL (PostgreSQL, MySQL), HTML5, CSS3
- **Backend Frameworks:** Django, Django REST Framework (DRF), FastAPI, Flask
- **Frontend:** React, Tailwind CSS
- **Databases & Caching:** PostgreSQL, MySQL, MongoDB, Redis
- **Tools & DevOps:** Docker, AWS, Git, Celery, REST API Design, Microservices, System Design, Unit Testing

## PROFESSIONAL EXPERIENCE

**FlexUp** | Paris, France (Remote)

**Full Stack Engineer** | Sep 2023 – Present

- Architected and implemented a modular backend system using **Django REST Framework** to support core services, including identity management, user rewards, and marketplace operations.
- Engineered scalable **REST APIs** to facilitate high-performance communication across various micro-platform components.
- Spearheaded quality assurance initiatives by increasing **automated test coverage from 18% to 86%**, drastically reducing production regressions.
- Implemented asynchronous data processing pipelines using **Celery and Redis** to handle background tasks and improve API response times.
- Collaborated with cross-functional teams to deliver scalable, production-ready features on strict deadlines.

**NEXEO** | Remote

**Backend Consultant** | Dec 2023 – Mar 2024

- Refactored the core roles and permissions architecture for a digital platform serving **5,000+ active users**, replacing legacy code with a clean, maintainable structure.
- Designed secure tracking logic for the **NFC card lifecycle** across the supply chain, ensuring real-time inventory accuracy.
- Optimized database queries and API endpoints, significantly improving backend stability and reducing system error rates.

**KIO** | Algeria

**Backend Developer** | 2023 – 2024

- Developed and maintained robust backend APIs for a high-traffic **e-commerce platform** utilized by over 8,000 users.
- Optimized store-creation workflows by decoupling heavy operations using **Celery/Redis**, resulting in faster load times.
- Identified and resolved critical backend bottlenecks that were degrading frontend functionality.
- Authored comprehensive unit and integration tests to enforce code quality and prevent deployment failures.

**Freelance** | Remote

**Full-Stack Developer** | 2020 – 2023

- Delivered 10+ custom web and mobile applications using **Django, React, and Flutter** for diverse global clients.
- Managed the end-to-end SDLC, from requirements gathering and system design to deployment and maintenance.

## PROJECTS

**Cardiac Arrhythmia Detection System** | *Python, Deep Learning (CNN, RNN)*

- Built and trained a machine learning model for detecting arrhythmias from ECG data, achieving **95% accuracy**.
- Developed the complete data pipeline, including preprocessing, model training, and data visualization.

**Table Reservation & Online Ordering Platform** | *PHP, MongoDB, Tailwind CSS*

- Engineered a real-time restaurant booking system featuring live availability updates and multi-user session handling.

## EDUCATION

- **Master's Degree in Information Systems Engineering** | University of Abd El Hamid Ibn Badis, Algeria | 2023
- **Bachelor's Degree in Computer Systems** | University of Abd El Hamid Ibn Badis, Algeria | 2021

## LANGUAGES

- **Arabic:** Native | **English:** Professional | **French:** Professional