



Mohamed Ed-Deryouch

Software & AI Engineer
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github.com/simoderyouch
Casablanca / Mohammedia, Morocco | Available to relocate within Morocco | Open to remote work

PROFILE

Software & AI Engineer with hands-on experience building full-stack applications, REST APIs, and AI-powered systems using React.js, Python, FastAPI, Flask, Spring Boot, and PostgreSQL. Experienced in RAG, NLP, LLM integration, web automation, and data-processing pipelines.

EDUCATION

ENSET – Higher Normal School of Technical Education Engineering Degree, Software Engineering and Distributed Computer Systems <i>In progress</i>	Mohammedia, Morocco 2025 – Present
Sultan Moulay Slimane University – School of Technology Bachelor's Degree, Infrastructure, Processing and Analysis of Big Data Associate Degree, Business Intelligence and Statistics	Fquih Ben Salah, Morocco 2024 – 2025 2022 – 2024

PROFESSIONAL EXPERIENCE

Web Development & Graphic Design <i>Freelance</i>	2022 – Present <i>Remote / Morocco</i>
- Designed and developed websites, responsive interfaces, and web applications for client and personal projects. - Managed projects independently from requirements and UI/UX design through implementation, deployment, and delivery.	
Software & AI Engineer Intern <i>High Commission for Planning Morocco</i>	Apr. 2024 – Jul. 2024 <i>Beni Mellal, Morocco</i>
- Developed a full-stack RAG question-answering application with React.js and FastAPI for information retrieval from internal documents. - Implemented semantic search and LLM-powered answer generation using NLP techniques and LangChain. - Designed REST APIs and PostgreSQL workflows and contributed to deployment, monitoring, and application maintenance.	
Software Engineer Intern <i>Fquih Ben Salah Higher School of Technology</i>	Jul. 2023 – Nov. 2023 <i>Fquih Ben Salah, Morocco</i>
- Built a full-stack attendance management system using Spring Boot, React.js, Redux, and PostgreSQL. - Implemented authentication, secure REST APIs, attendance workflows, dashboards, and reporting features. - Integrated Power BI visualizations to provide attendance insights and support administrative decision-making.	

PROJECTS

Arachnize – Web Scraping & Workflow Automation Platform	2026
- Developed a workflow automation platform for configuring, executing, and managing automated web-scraping processes using Python, FastAPI, React.js, PostgreSQL, Redis, and Docker. - Designed asynchronous scraping workflows with distributed task processing for scheduling, executing, and monitoring scraping jobs. - Built REST APIs and a web interface for workflow configuration, job management, execution tracking, and structured data processing.	
Smart Delivery Management System	2026
- Designed and implemented an enterprise-oriented delivery management platform using Java, Spring Boot, PostgreSQL, and REST APIs. - Developed a layered architecture with controllers, services, repositories, DTOs, validation, authentication, and business rules. - Implemented workflows covering order assignment, delivery status management, driver operations, tracking, and logistics coordination.	
Sentiment Analysis Platform – Final Year Project	Jun. 2024
- Developed a React/Flask platform for processing and analyzing more than 10,000 user feedback entries. - Preprocessed textual data and integrated BERT/LSTM models, achieving approximately 90% classification accuracy. - Built a decision-support dashboard to visualize sentiment results and support user-feedback analysis.	

TECHNICAL SKILLS

Core: Python, Java, JavaScript, React.js, FastAPI, Flask, Spring Boot, PostgreSQL, SQL, REST APIs, Docker, Git
AI & NLP: Machine Learning, Deep Learning, NLP, BERT, XLM-RoBERTa, LLMs, RAG, LangChain, Semantic Search, NLP Inference
Data Engineering: Apache Kafka, Apache Spark, PySpark, Apache Airflow, Real-Time Data Processing, Power BI
Frontend: Redux, HTML5, CSS3, TailwindCSS
Additional: Django, Django REST Framework, Express.js, Node.js, Redis, Qdrant, Pinecone, AWS, CI/CD, Authentication, Cloud Deployment, Monitoring

LANGUAGES

Arabic: Native **French:** Professional working proficiency **English:** Technical and professional working proficiency

CERTIFICATIONS

Machine Learning Specialization – DeepLearning.AI & Stanford University	Apr. 2025
Advanced React – Meta	Dec. 2024
JavaScript (Intermediate) – HackerRank	Dec. 2023