



FARAH KHANCHOUCH

Engineering Student — Industrial Digital Transformation

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LinkedIn QR

EDUCATION

ENSA Béni Mellal — Engineering Degree in Industrial Digital Transformation <i>Specialization: Industry 4.0, IoT, Information Systems</i>	2021 – Present
Faculty of Sciences & Techniques, Marrakech — Preparatory Year MIPC	2020 – 2021
Lycée Mohammed VI, Ouarzazate — Baccalaureate in Mathematical Sciences A	2020

PROFESSIONAL EXPERIENCE

Full-Stack Developer — Interactive Learning Systems <i>Expleo Morocco (PFA Internship)</i>	June – Sept 2025
<ul style="list-style-type: none">Built a full-stack quiz web app with gamification, including leaderboards and badges.Deployed via a CI/CD pipeline on Render and Vercel, with automated builds and result tracking.Tech Stack: Node.js, Express.js, MongoDB, Angular, JWT Authentication, Postman	
Zoho Developer & CRM Integration Specialist <i>Monark IT (Introductory Internship)</i>	July – Aug 2024
<ul style="list-style-type: none">Built custom solutions using Zoho Developer, CRM, Invoice & Bookings modulesAutomated reservation and invoicing workflows, synchronized client data across platformsTech Stack: Zoho Developer, Zoho CRM, Zoho Invoice, Zoho Bookings, JavaScript, REST APIs, Webhooks	

TECHNICAL PROJECTS

Airline Flight Inventory Management System — Spring Boot, PostgreSQL, React.js, Docker
Enterprise-grade platform with JWT authentication, CI/CD pipeline, and comprehensive Swagger documentation.

Forest Fire Prediction Model — Python, Scikit-learn, Pandas, Matplotlib
ML system comparing SVM, KNN, and Decision Tree algorithms for fire outbreak prediction using weather data.

Medical Management Application — Spring Boot, Flutter, PostgreSQL
Mobile and web app for patient records, staff management, and appointment scheduling.

TECHNICAL SKILLS

Backend:	Java, Spring Boot, Node.js, Express.js, REST APIs, JWT, PostgreSQL, MongoDB
Frontend:	React.js, Angular, TypeScript, HTML5, CSS3, Tailwind CSS, Bootstrap
Mobile:	Flutter (Dart), Android Studio (Java)
DevOps:	Docker, GitLab CI/CD, Git, GitHub, Vercel, Render, Netlify
Data Science:	Python, Scikit-learn, Pandas, NumPy, Matplotlib, SVM, KNN, Decision Tree
ERP & Tools:	Zoho (Developer, CRM, Invoice, Bookings), Odoo, Figma, Postman, IntelliJ, VS Code

ACHIEVEMENTS & LEADERSHIP

2nd Place — Moroccan TSP Competition (Communes)	2025
Optimized route through 1,503 Moroccan communes achieving distance of 19,174,787.34m using advanced algorithms.	
3rd Place — Moroccan TSP Competition (Localities)	2025
Secured third place by optimizing path through 12,289 localities with total distance of 35,903,401.14m.	
Treasurer — Enactus ENSA Béni Mellal	2023 – 2025
Managed finances and sponsors, coordinated with administration, and organized the Moroccan TSP Competition.	

LANGUAGES

Arabic (Native) **French** (C1 — Fluent) **English** (B2/C1 — Professional)