



# FARAH KHANCHOUCH

Engineering Student — Industrial Digital Transformation

📍 Béni Mellal, Morocco 📞 +212 6 08 09 52 95

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🌐 [github.com/farah-khanchouch](https://github.com/farah-khanchouch) 🌐 [portfolio-khanchouch-farah.vercel.app](https://portfolio-khanchouch-farah.vercel.app)





LinkedIn QR

## EDUCATION

<b>ENSA Béni Mellal</b> — Engineering Degree in Industrial Digital Transformation <i>Specialization: Software Development, AI &amp; Machine Learning</i>	2021 – Present
<b>Faculty of Sciences &amp; Techniques, Marrakech</b> — Preparatory Year MIPC	2020 – 2021
<b>Lycée Mohammed VI, Ouarzazate</b> — Baccalaureate in Mathematical Sciences A	2020

## PROFESSIONAL EXPERIENCE

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

## 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

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

## ACHIEVEMENTS & LEADERSHIP

<b>2nd Place — Moroccan TSP Competition (Communes)</b>	2025
Optimized route through 1,503 Moroccan communes achieving distance of 19,174,787.34m using advanced algorithms.	
<b>3rd Place — Moroccan TSP Competition (Localities)</b>	2025
Secured third place by optimizing path through 12,289 localities with total distance of 35,903,401.14m.	
<b>Treasurer — Enactus ENSA Béni Mellal</b>	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)