

# Wassim Fekih

Full Stack Engineer | Creative Developer

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## Education

### Master of Research in Artificial Intelligence

Monastir Faculty of Sciences

Sept 2023 – Nov 2025

Monastir, Tunisia

- Thesis: Developed an adaptive IoT architecture using Lifelong Learning for autonomous sensor integration.

### Bachelor of Computer Science

Monastir Faculty of Sciences

Sept 2020 – June 2023

Monastir, Tunisia

## Work Experience

### Creative Developer

Nexel Digital Studio | [nexeldigitalstudio.com](http://nexeldigitalstudio.com)

May 2025 – Present

Remote

- Co-founded the technical division of a digital design agency, partnering with a Lead UI/UX Designer to deliver high-end web solutions.
- Engineered the studio's flagship platform using **Next.js 15** and **Framer Motion**, translating complex Figma designs into a responsive, interactive brand experience.
- Delivered diverse client solutions, ranging from immersive brand sites (optimized for **SEO and search visibility**) to functional **React Native** mobile prototypes.

### Full Stack Engineer

INSEN

Jun 2025 – Oct 2025

Ksar Helal, Tunisia

- Modernized the backend of a proprietary ERP ecosystem, optimizing a **160+ table PostgreSQL schema** to streamline complex workflows for General Ledger and HR.
- Implemented strict **double-entry bookkeeping logic** and multi-layered tax rules using **Next.js** and **Prisma**, ensuring financial data integrity across the platform.
- Authored **50+ pages of technical documentation** mapping the algorithmic logic, significantly reducing onboarding time for future developers.

### Deep Learning Engineer Intern

SARTEX

Feb 2023 – May 2023

Monastir, Tunisia

- Curated a proprietary dataset and trained a **YOLOv5 model** to detect textile defects, achieving **92% mAP** (Mean Average Precision).
- Developed a user-friendly GUI using **Python** and **Tkinter** for factory operators, enabling real-time defect classification and reducing manual inspection time by roughly **40%**.

## Featured Projects

### TunisHome Pro

Next.js 15 | Supabase | Python | Llama 3.2

- Architected an AI-driven real estate ecosystem with a specialized **Legal RAG Agent** that indexes Tunisian property codes to advise on land titles and foreign ownership laws.
- Developed a concurrent **Python ETL pipeline** that synchronizes thousands of active listings daily, implementing custom **deduplication logic** to ensure real-time market accuracy.
- Integrated **Llama 3.2 Vision** for automated property scoring and utilized **pgvector** for semantic search, allowing users to find properties via natural language (e.g., “Find a quiet suburban villa”).

### Zapper

TypeScript | Next.js 15 | Prisma | React Query

- Built a **Bug Tracking system** using **Next.js 15 Server Components** and **Granular RBAC**, securing project data via custom Middleware and JWT-based session handling.

## Technical Skills

**Languages:** TypeScript, JavaScript, Python (Pandas, NumPy), SQL, HTML5, CSS3, Sass

**Creative Frontend:** Next.js, React, Framer Motion, GSAP, Lenis (Smooth Scroll), WebGL, Core Web Vitals

**Backend & AI:** Node.js, Prisma, PostgreSQL, Supabase, YOLOv5, RAG (Llama 3.2), Vector Embeddings

**DevOps & Tools:** Git, Docker, Vercel, Postman, Linux/Bash, CI/CD