

Wassim Fekih

Full Stack Engineer | Creative Developer

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Education

Master of Research in Artificial Intelligence <i>Monastir Faculty of Sciences</i>	Sept 2023 – Nov 2025 <i>Monastir, Tunisia</i>
– Thesis: Developed an adaptive IoT architecture using Lifelong Learning for autonomous sensor integration.	
Bachelor of Computer Science <i>Monastir Faculty of Sciences</i>	Sept 2020 – June 2023 <i>Monastir, Tunisia</i>

Work Experience

Creative Developer <i>Nexel Digital Studio nexeldigitalstudio.com</i>	May 2025 – Present <i>Remote</i>
– 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 <i>INSEN</i>	Jun 2025 – Oct 2025 <i>Ksar Helal, Tunisia</i>
– 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 <i>SARTEX</i>	Feb 2023 – May 2023 <i>Monastir, Tunisia</i>
– 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