

Med Jalel Masmoudi

AI Software Engineer | Full-Stack Developer
+216 56 783 147 | m.j.masmoudi1@gmail.com | [LinkedIn](#) | [GitHub](#)

SUMMARY

Third-year Computer Science student pursuing a Bachelor's degree at the International Institute of Technology (IIT) Sfax with hands-on experience developing AI-powered enterprise applications, agentic systems, and full-stack software. Experienced in building scalable web applications using React, FastAPI, TypeScript, PostgreSQL, and modern LLM frameworks including LangGraph. Interested in enterprise AI, backend engineering, intelligent automation, and building software that solves real business problems.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, C#, PHP, C++
Frontend: React, TanStack Start, Next.js, Tailwind CSS, HTML5, CSS3, Vite, React Flow
Backend: FastAPI, REST APIs, JWT Authentication, LiteLLM
Artificial Intelligence: LangGraph, OpenAI API, Google Gemini API, Agentic AI, Prompt Engineering, Knowledge Graphs, Tool Calling, Retrieval-Augmented Generation (RAG)
Databases: PostgreSQL, MongoDB, MySQL, pgvector
Developer Tools: Git, GitHub, Docker, GitHub Actions, Cloudflare Pages, VS Code, Eclipse
Software Engineering: Object-Oriented Programming, Data Structures, Algorithms, Software Architecture, Agile Development, Testing, Debugging
Spoken Languages: Arabic (Native), English (Professional), French (Professional)

EXPERIENCE

- | | |
|---|---------------------------------|
| AI Software Engineering Intern | 2026 – Present |
| <i>MTD Group</i> | <i>Tunisia</i> |
| <ul style="list-style-type: none">Developing Jigo AI Workspace, an enterprise AI platform integrating intelligent assistants with ERP systems.Building AI-powered features including natural language search, document intelligence, workflow automation, report generation, and developer assistance.Developing modern frontend applications using React, TypeScript, and Tailwind CSS.Building scalable backend APIs using FastAPI and PostgreSQL.Contributing to enterprise software architecture while integrating AI technologies into business workflows. | |
| Web Development Intern | Jul 2025 – Sep 2025 |
| <i>KothonTech GmbH</i> | <i>Munich, Germany (Remote)</i> |
| <ul style="list-style-type: none">Developed and enhanced responsive web applications using HTML, CSS, JavaScript, and React.Assisted with backend feature development and database integration.Tested, identified, and resolved software defects to improve application reliability and performance.Collaborated with developers in an agile environment to implement new features and improve existing applications. | |
| <ul style="list-style-type: none">Applied software engineering best practices including debugging, testing, and version control. | |
| Freelance Web Developer | 2024 – Present |
| <i>Self-Employed</i> | <i>Sfax, Tunisia</i> |
| <ul style="list-style-type: none">Designed and developed responsive websites and web applications for businesses and individual clients.Gathered client requirements and translated business needs into scalable technical solutions.Built modern user interfaces focused on performance, accessibility, and maintainability.Managed complete project lifecycles from planning to deployment using Git and modern development practices. | |

FEATURED PROJECTS

Jigo AI Workspace <i>React, TypeScript, FastAPI, PostgreSQL, Tailwind CSS, AI APIs</i>	2026 – Present
• Developing an enterprise AI workspace integrating intelligent assistants with ERP systems. • Implementing natural language enterprise search, intelligent document processing, workflow automation, and report generation. • Building scalable backend services and modern enterprise dashboards. • Designing a modular architecture supporting future AI integrations.	
Masmo — Enterprise Investigation Agent <i>LangGraph, FastAPI, React, NetworkX, LiteLLM</i>	2026
• Built an AI-native enterprise investigation platform capable of performing multi-step root cause analysis across organizational data during the RAISE Summit Hackathon. • Designed a LangGraph workflow consisting of Planner, Executor, Observer, and Reporter agents. • Built a dynamic enterprise knowledge graph using NetworkX to model dependencies between projects, incidents, infrastructure, and documentation. • Integrated multiple investigation tools to generate explainable executive reports and interactive graph visualizations.	
LeadTN <i>React, JavaScript, APIs</i>	2024
• Developed a SaaS platform for automated Google Maps business lead generation. • Built search and filtering functionality based on business category and location. • Designed a dashboard for managing and exploring business leads. • Focused on improving prospecting workflows for agencies and businesses.	

EDUCATION

International Institute of Technology (IIT)	Sfax, Tunisia
<i>Bachelor of Science in Computer Science, Third-Year Student</i>	<i>2023 – Present</i>

CERTIFICATIONS

Cloud & DevOps: AWS Certified Cloud Practitioner, GitHub Foundations, GitHub Actions, Google Cloud Generative AI Fundamentals
Databases & AI: MongoDB Certified Associate Developer, MongoDB Relational to Document Model, Building AI-Powered Search with MongoDB Vector Search

ACTIVITIES

IEEE Student Member Continuous learning in enterprise software development and AI technologies.
