

HAMZA MISSAOUI

Software Engineer | Full-Stack Web Developer (AI, Cloud, DevOps)

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SUMMARY

Full-Stack Developer & Cloud Specialist with 4 years of experience bridging the gap between robust software engineering and AI/LLM integration. Expert in designing and deploying production-ready, AI-powered features within high-performance SaaS environments. Highly proficient in Node.js, Python, and modern frontend frameworks, supported by a strong DevOps foundation in containerization and automated deployment. Passionate about building secure, maintainable, and data-driven solutions for e-commerce and marketing technology sectors.

TECHNICAL SKILLS

- Languages: JS, Typescript, Python, C++, C#, Rust, Go
- Frontend: React.js/Vite.js, Next.js, HTML, CSS, Tailwind, Shadcn, MUI
- Backend: Node.js, Nest.js, Express/Koa, FastAPI, Django, Asp.Net Core
- API & Tools: REST, GraphQL, WebSocket, RBAC, OAuth2, JWT, SSO, Redis, BullMQ, PubSub, Jest
- Cloud & Devops: AWS, Azure, GCP, Docker, Kubernetes, Github Actions, Bibucket Pipelines, Agile/Scrum, Terraform, Ansible
- Monitoring & Observability: Elasticsearch, Logstash, Kibana, Sentry, Pino, Grafana
- Databases & TypeORMs: PostgreSQL, MongoDB, MySql, Firebase, Convex, Sanity, Prisma, Supabase
- AI & ML: OpenAI, GeminiAI, Claude, Groq, Generative AI, Agentic AI, MCP, TensorFlow, Jupyter
- Architecture & Patterns: MicroServices, SaaS, MVC, MVP, Data Driven Design, Event Driven Systems

EXPERIENCES

Full-Stack Web Developer | Freelancer - Tunis, Tunisia | Oct 2025 – Dec 2025

- Engineered a high-frequency Crypto Analytics & Prediction Platform using Next.js, FastAPI, and Python, achieving an 85%+ accuracy rate in short-term price movement forecasting via custom AI/ML models.
- Integrated Web3 wallet protocols and real-time WebSocket data streams to process and visualize 10,000+ price updates per second with sub-50ms latency.
- Developed a "Time Machine" historical analysis engine, allowing users to backtest strategies against 5+ years of archived market data, increasing user engagement by 40%.

Full-Stack AI Developer | Go-Makkah Travel Agency | Lac 1, Tunisia | Sep 2025 – Oct 2025

- Architected an AI-driven travel orchestration engine serving 1,000+ active users, leveraging Nest.js and PostgreSQL to manage complex, high-concurrency booking flows.
- Automated 100% of personalized itinerary generation using LLM integrations, reducing the manual travel planning phase from hours to under 30 seconds.
- Refined database schema relationships in Supabase, improving query performance by 35% and ensuring transactional integrity for multi-step flight and hotel bookings.
- Deployed secure payment gateways with 3D-Secure protocols, achieving a 99.9% success rate for cross-border travel transactions.

Full-Stack Web/Cloud Developer | B2b-Alive Ltd | London, England | Oct 2022 – Jun 2025

- Spearheaded the development of a flagship B2B Digital Signage SaaS, scaling the platform to support enterprise clients including Shell and Nissan across 5,000+ global endpoints.
- Optimized frontend performance by replacing legacy builds with React (Vite) and TypeScript, resulting in a 45% reduction in initial bundle size and 2x faster TTI (Time to Interactive).
- Architected a high-throughput background processing system using Redis and BullMQ, successfully managing 50,000+ daily jobs including automated content transcoding and scheduled distribution.
- Implemented a robust Multi-Cloud infrastructure (AWS/GCP/Azure) using Docker, achieving 99.95% uptime and reducing deployment cycles by 30% via automated CI/CD pipelines.
- Centralized system observability using the ELK Stack, reducing Mean Time to Resolution (MTTR) by 50% through real-time log aggregation and automated alerting for edge device failures.
- Secured enterprise portals by implementing SSO, OAuth2, and MFA, ensuring compliance with strict data privacy standards for Tier-1 corporate clients.
- Enhanced edge delivery speed by 25% by deploying Cloudflare Workers for serverless logic and instant content validation at the network edge.

- Reduced regression rates by 40% by instituting a rigorous testing culture with Jest and standardized peer code reviews, improving overall code maintainability.
 - Improved system reliability and reduced incident impact by establishing monitoring, alerting and runbooks
 - Collaborated closely with product and support teams to triage and resolve customer issues.
 - Contributed Python scripts and utilities for automation, data migrations and operational tooling where needed.
 - Used Immutable.js and Context patterns to enforce predictable state management and improve frontend performance.
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INTERNSHIPS

Final Year Intern | B2b-Alive Ltd | London, England | Jan 2022 – Sep 2022

- Developed a digital broadcasting and data visualisation platform for online posters and advertising B2B clients using React, GraphQL, Websocket, MongoDB enabling managing digital content & medias via complete workspace zone and canvas editor.
- Implemented canvas for poster composition and multi-device broadcasting, supporting seamless content delivery across heterogeneous display environments

Second Year Intern | Standard Sharing Software Group | Tunis, Tunisia | Jul 2021 – Sep 2021

- Collaborated with engineers to enhance system usability and reliability for enterprise networking environments.
- Contributed to the design and development of a web-based network diagnostics platform that translated complex connectivity and infrastructure data into intuitive visual workflows for faster issue identification.

First Year Intern | Standard Sharing Software Group | Tunis, Tunisia | Jun 2020 - Jul 2020

- Contributed in development of asset monitoring and supervision platform design and core components focused on real-time system status and performance tracking.
 - Built and optimized data visualization modules for live monitoring dashboards, improving responsiveness and observability.
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EDUCATION

Software Engineering | Free University of Tunis / ULT , Tunisia | Sep 2019 – Sep 2022

- Coursework: Agile/Scrum, Project Management, Algorithms & Data Structures, OOP, Web & Mobile Development, Cloud Computing, Data Science, Virtualization, SQL/NoSQL Data Management, PHP, Python, C#, Asp.Net. GPA: 14.8/20.

Chemical Engineering | Faculty of Sciences of Tunis, El Manar, Tunisia | Sep 2018 – May 2019

Engineering Preparatory Cycle | Faculty of Sciences of Tunis, El Manar, Tunisia | Sep 2015 – Jun 2018

- Passed the national exam in mathematics and physics for engineering studies preparation

H.S Diploma | High School Mourouj 1, Tunisia | Sep 2014 – Jun 2015

- Passed the national high school / baccalaureate exam in mathematics section. GPA: 14.7/20
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CERTIFICATIONS

- LinkedIn : React Developer Certificate – 2025
 - AWS : Cloud Practitioner, Gen AI, Lambda, Cost Optimization – 2025
 - HackerRank : JS, TS, Python, Node.js, C#, REST, SQL – 2025
 - Cisco : Data Analytics, Intro to Cybersecurity, Python Essentials – 2025
 - Databricks : Associate Developer, Machine Learning At Scale – 2025
 - Cisco : CCNA 1 and 2 – 2022
 - AWS : Academy Associate – 2021
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PROJECTS

- Portfolios: <https://www.hamzamissaoui.dev> | <https://www.hamzamissaoui.online>
 - SaaS Blogs: <https://hamza-saas-blogs-v2.vercel.app>
 - Crypto Price Prediction: <https://crypto-market-prices-prediction.vercel.app> | <https://hamza-web3-analytics.vercel.app>
 - Travels Booking: <https://hamza-travel-booking.vercel.app> | <https://hamza-go-makkah.vercel.app>
 - Crypto Wallet Connect: <https://hamza-web3launch.vercel.app>
 - Nano AI Generator: <https://hamza-mswi-thumbnail-generator-ai.vercel.app>
 - Emails Generator: <https://hamza-temporary-email-generator.vercel.app>
 - More Projects: <https://link.hamzamissaoui.dev/hamza-work>
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LANGUAGES

- Arabic: Native | English: Professional | French: Professional