

# HAMZA MISSAOUI

## Software Engineer | Full-Stack Web Developer

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### PROFESSIONAL SUMMARY

Accomplished Full-Stack Developer with 3.5+ years of experience building web applications in architectures (cloud-native, PaaS, SaaS & AI-driven ) and different domains such as digital-signage, marketing, e-commerce and booking. Primarily works with the MERN, Next.js, Node.js (Express, Nest, Koa) and cloud platforms (AWS, GCP, Azure), alongside other up-to-date tools. Specializes in building real-time content sync systems and system notifications for 50k+ players with Redis Pub/Sub & WebSocket, backed by robust services in Python and C#. Skilled in deploying scalable solutions, containerization, logging, monitoring, automated deployment pipelines and Devops best practices.

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### TECHNICAL SKILLS

- Frontend: JS, Typescript, React.js, Next.js, Vite.js, React Native, HTML, CSS
  - Backend: Node.js (Nest, Express, Koa), C# (Asp.Net Core), Python (Django, FastAPI)
  - Cloud Platforms & Architectures: AWS, GCP, Azure, Cloud-native, SaaS, Serverless, Microservices, SOA, Event-Driven Design
  - DevOps & Observability: Docker, CI/CD (GitHub Actions, Bitbucket Pipelines), ELK Stack, Sentry, Pino, Prometheus
  - Databases: PostgreSQL, MongoDB, MySQL, Firebase, Convex, TypeORM, Prisma
  - APIs & Protocols: Rest, GraphQL, WebSocket, Socket.io, OAuth2, JWT, Clerk, Redis, RedisLock, BullMQ, RBAC (CASL)
  - AI/LLMs: LLMs (OpenAI, GeminiAI, Groq, Langchain), Generative AI, AI agents, MCP
  - Methodologies & Patterns: Agile / Scrum, MVC, Event-Driven Design, SEO, Clean Architecture
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### WORK EXPERIENCE

#### Full-Stack Web Developer | Go-Makkah | Lac, Tunisia | Sep 2025 – Oct 2025

- Built and deployed an AI-driven travel-booking platform (user + admin interfaces) serving 1,000+ users/year, with flight scheduling, hotel/guide/transport availability checks, customizable itineraries, real-time notifications and chat support, and secure payments. (Next.js, React, Node.js, FastAPI, Docker, AWS, PostgreSQL, Redis, WebSocket, CI/CD)

#### Full-Stack Cloud Developer | B2b-Alive Ltd | London, UK | Oct 2022 – Jun 2025

- Led development of digital signage platform managing content for more than 50K LED screens worldwide for global brands and public places (HP, Shell, Nissan, Mercedes, Stadium, Public Station, Retail)
- Spearheaded a robust authentication and authorization system using OAuth, JWT, SSO, and MFA, boosting platform security by 70% and maintaining a 98% uptime for 100+ users
- Migrated REST APIs to GraphQL, reducing data payloads by 60% and increasing content-update reliability to 90%
- Improved real-time data flow by integrating Redis as an in-memory cache for playlists and device states, cutting latency and boosting scalability by 75%
- Implemented real-time synchronization of media players across distributed displays using WebSockets and Redis Pub/Sub, enabling synchronized media updates and reducing end-to-end latency by 90%
- Integrated AI-driven media management features (scene templates, automated content resolution, video transcoding, media processing, images metadata extraction) streamlining content creation workflows by 70%
- Delivered i18n-enabled UI, a conversational AI assistant, role-based access control, calendar-driven player scheduling, a poster-template gallery, and a canvas-based scene editor — improving content-management efficiency and UX by 80%
- Deployed and configured ELK stack for centralized logging and monitoring, reducing system crashes by 90% and improving incident detection
- Maintained 85% test coverage with Jest for GraphQL queries, ensuring regression stability and code quality
- Coached two junior engineers during a six-month mentorship program using structured code reviews, pairing sessions, and workflow documentation — boosting team throughput and on-time delivery by 30%

#### Final Year Intern | B2b Alive Ltd | London, UK (Remote) | Jan 2022 – Sep 2022

- Created and deployed a multimedia content management platform from canva-inspired using Mern stack with presentation editor, supporting ad creation across 10+ device types and different data formats such as image, video, text and RSS feed

#### Second Year Intern | 3S Group | Chargaia, Tunisia | Jul 2021 – Sep 2021

- Helped deliver a web solution processing & monitoring 2K+ records/day about stats & connectivity status of Globalnet internet users, reducing intervention time for user issues and improving retrieval speed by ~50%

#### First Year Intern | 3S Group | Chargaia, Tunisia | Jun 2020 – Aug 2020

- Integrated smoothly into the team, quickly learned company processes, and began contributing to project delivery
- Created features for an asset-tracking platform using React.js and Node.js, reducing delays in viewing data

## EDUCATION

### Software Engineering | Free University of Tunis (ULT) | Sep 2019 – Sep 2022

- Graduated with honors, Coursework: Algorithms, Web & Mobile Development, Data Science, Matlab, Cloud Computing & Machine Learning, AWS, Azure, Virtualization, Python, C#, SQL / NoSQL, PISql, Agile Scrum.

### Analytical Chemistry Engineering | Faculty of Sciences of Tunis | Sep 2017 – May 2019

- Coursework Analytical Chemistry, Instrumental Analysis, Process Thermodynamics, Fluid Mechanics, Unit Operations, Hands-on experience in instrument calibration, maintenance, and chemical data analysis.

### Preparatory Cycle in Math-Physics | Faculty of Sciences of Tunis | Sep 2015 – Jun 2017

- Passed the national competition and earned qualification for software engineering studies

### H.S Diploma in Math | Tunisia, Mourouj 1 | Sep 2014 – Jun 2015

- Passed the baccalaureate competition in mathematics with a good grade 14.7/20
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## CERTIFICATIONS

- Azure: Developer Associate – Oct 2025
  - IBM: Full-Stack Cloud Developer – Aug 2025
  - AWS: Cloud Practitioner, Generative AI, Lambda Foundations, Cost Optimization – Jun 2025
  - HackerRank: JS, TS, Python, Node.js, C#, REST, SQL – May 2025
  - Databricks: Generative AI App, Associate Developer, Machine Learning At Scale – 2024
  - Cisco: Data Analytics, Intro to Cybersecurity, Python Essentials, CCNA 1 & 2 – 2022
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## PROJECTS

- Portfolio - <https://hamzamissaoui.dev> | [Demo](#)
  - Finance Currency - [Demo](#)
  - Travels Booking - [Demo](#)
  - Random Email - [Demo](#)
  - AI Mini Chatbot - [Demo](#)
  - AI Thumbnail Generator - [Demo](#)
  - AI Events Creator - [Demo](#)
  - More Projects - [notion.so/2bbebd8ecaf180f6b39fde3a617f7807](https://notion.so/2bbebd8ecaf180f6b39fde3a617f7807)
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## LANGUAGES

- Arabic: Native
- English: Professional (C1)
- French: Fluent (B2)
- German: Very Basic (A1)