

Zakariae Ezzine

CTO — Technical Lead

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Profile

Full Stack Developer with 2+ years of experience. React.js, Next.js, Vue.js, Node.js/Nest.js, Python/FastAPI. Microservices, REST APIs. Designed a multi-store SaaS platform serving 80+ locations. Deployed an LLM-based NLQ platform with schema-aware prompt engineering and secure database access. Reduced reporting time from 4h to 5min. Data pipelines enabled the publication of 2 PhD theses. Recruits and mentors teams of up to 4 developers. Owns technical roadmap and technology decisions.

Experience

CTO Aug 2025 – Present
Marwa Retail Casablanca, Morocco

- Recruited, mentored, and led a team of 4 developers. Sprint planning and code reviews.
- Owned the product roadmap and technology decisions end-to-end.
- Designed a microservices architecture: React frontend, Node/Express (TS) API, Python/FastAPI data layer, PostgreSQL, JWT, OAuth2.
- Scaled an MVP into a multi-store SaaS platform serving 80+ retail locations.
- Set up CI/CD pipelines and Docker. Automated supply chain operations.
- Configured Caddy as a reverse proxy for automated SSL/TLS certificate management (issuance and renewal).
- Cut processing time from 4h (manual Excel) to 5min through team automation efforts.
- Designed and deployed an LLM-powered natural-language query (NLQ) platform: engineered role/context/I-O prompts so the model reasons over database schema to select the correct table/query, with guardrails restricting destructive operations, and secure database access.

Freelance Full Stack Engineer & Technical Advisor Aug 2025 – Dec 2025
Swarmcheck Poland (Remote)

- Key contributor to an AI-assisted collective intelligence platform for group decision-making & argument mapping.
- Developed full-stack features: React collaborative UI + Node.js/TypeScript backend.
- Integrated LLMs for automated argument analysis, reasoning support, and suggestion generation.
- Deployed and managed infrastructure on Azure with MongoDB as the primary database.
- Advised on product vision: scalability, explainable AI, and multi-user deliberation enhancements.

Full Stack Developer Nov 2024 – Jul 2025
UM6P – Collective Intelligence School Rabat, Morocco

- Recruited, mentored, and supervised 2 developers. Code reviews.
- Designed production research platforms: React, Node/Nest.js, TypeScript, REST APIs.
- Collaborated with research product leads.
- Debugging and performance optimization. Docker/DevOps.
- Used PostgreSQL (SQL) + MongoDB (NoSQL).
- Built experimental game-theory-based games with real-time communication via Socket.IO.
- Built computer vision pipelines with Hugging Face models to detect human facial emotion and movement, supporting two research studies: eye-movement tracking for dyslexia screening and behavioral movement analysis for ADHD assessment.
- Collected high-quality data that enabled the publication of 2 PhD theses.

Freelance Full Stack Developer Jun 2024 – Nov 2024
Independent Remote

- Built client web applications: React and Vue.js frontends, Nest.js backend, MongoDB.
- Deployed and hosted on DigitalOcean.
- Created Selenium scripts to automate repetitive tasks.

Education

Digital Architect 2021 – 2024
1337 School, UM6P

Software Development 2019 – 2021
ISTA

Skills

- **Frontend:** React.js (primary), Next.js, Vue.js, TypeScript, JavaScript
- **Backend & API:** Node.js, Express.js, Socket.IO, Nest.js, Bun.js, REST API design, Python, FastAPI, Django
- **Architecture:** Microservices, Cloud-Native Design, Full Stack Development
- **Databases:** PostgreSQL (Advanced), MongoDB
- **DevOps & Tools:** Git, GitHub, GitLab, Docker, CI/CD, Linux, Nginx, Caddy, AWS, Azure, DigitalOcean, Postman, Selenium

- **Leadership:** Recruiting, Mentoring, Roadmap Management, Code Reviews, Problem Solving
- **AI & Data:** LLM Integration, Prompt Engineering (role/context/I-O design), NLQ (Natural Language Querying), Computer Vision (Hugging Face), Pandas, XGBoost
- **Languages:** Arabic (Native), English (Fluent), French (Intermediate)