ALA BAGANNE

Full-Stack Software Engineer

Monastir, Tunisia | Open to full-time and part-time opportunities · Remote, hybrid or on-site
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SUMMARY

Full-stack software engineer building production web applications for international teams and clients since 2021. Contributed to a healthcare platform serving 25,000+ users, with recent work on AI document processing, retrieval-augmented generation and asynchronous cloud workflows. Builds across React, Next.js, TypeScript, Node.js and FastAPI, from user interfaces and APIs to production features.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, Vue.js, AngularJS, Tailwind CSS

Backend and data: Node.js, Express.js, FastAPI, Python, Laravel, PHP, SQL, PostgreSQL, MySQL, Supabase, MongoDB

Applied AI: RAG, LLM APIs, OpenAI API, Vertex AI, DSPy, vector databases, OCR

Cloud and testing: AWS, GCP, Cloud Run, Cloud Tasks, Pub/Sub, Docker, Vercel, CI/CD, Jest, Cypress, Mocha, Supertest

PROFESSIONAL EXPERIENCE

Software Engineer | Retain Health, Inc.

Aug 2021 - Present | Boston, MA (Remote) | Part-time contract

- Build and maintain full-stack features for RetainYourBrain, a healthcare platform serving 25,000+ users with personalized lifestyle interventions for Alzheimer's prevention.
- Designed a dynamic form system with complex conditional logic to power personalized routines and topic recommendations.
- Developed features with AngularJS, Express.js, Next.js, Node.js, TypeScript and MySQL; created reusable AngularJS services to reduce redundant API calls.
- Introduced automated testing with Jest, Cypress, Mocha, Supertest, Karma and Protractor, alongside GA4 and Google Tag Manager analytics.

Full-Stack & AI Engineer | Wequity

Oct 2025 - May 2026 | Brussels, Belgium (Remote) | Part-time contract

- Built React, FastAPI and Supabase features for NORA, an AI legal document platform supporting English, French and Dutch documents.
- Developed a Smart Processing module that uses LLM APIs and DSPy to learn document transformation patterns from example pairs.
- Built a RAG knowledge base for querying uploaded legal documents and returning AI-generated answers with source citations.
- Designed asynchronous document processing with Google Cloud Tasks and Pub/Sub; integrated DeepL for multilingual legal document translation.

Freelance Web Developer | Upwork (Top Rated)

Aug 2024 - Present | Worldwide (Remote) | Self-employed

- Completed seven contracts, each rated 5 stars, with a 100% Job Success Score.
- Built the Martinez Auto Detail booking system with service selection, dynamic pricing, scheduling, Square-powered card storage and an owner dashboard.
- Delivered web applications, custom Shopify themes and e-commerce stores, including a WordPress storefront with Stripe checkout.

SELECTED PROJECTS

MenuMate | Founder

Restaurant SaaS | Next.js, React, Supabase, PostgreSQL, Tailwind CSS

- Founded and built a multilingual platform for restaurants to publish QR-code menus, receive table orders in real time and manage operations from an admin dashboard.
- Built per-table QR codes, real-time order updates, staff access and support for multiple restaurant locations in one account.

menumate.net

Karta | Gift card storefront

Next.js, TypeScript, Tailwind CSS, MySQL, Drizzle

- Built a digital gift card storefront for Tunisian customers, with product selection, prices in Tunisian dinars and code delivery by email after payment confirmation.
- Supports a local purchase flow using bank transfers or in-person cash payments, with a multilingual storefront.

kartatunisie.com

Internly | End-of-studies project

Laravel, Vue.js, Inertia.js, MySQL, Pusher

- Built an internship platform where students apply for opportunities and companies publish openings, with application tracking, dashboards and real-time notifications.

Project overview | GitHub

EARLIER EXPERIENCE

Full-Stack Developer Intern | Satoripop

Jul 2023 - Aug 2023 | Sousse, Tunisia (Hybrid)

- Independently built a video meeting platform with authentication, scheduling and Jitsi-powered calls using React, TypeScript, Express.js and MySQL.

Full-Stack Developer Intern | Realinflo

Feb 2021 - May 2021 | Hong Kong SAR (Remote)

- Built a property-data admin dashboard with Vue.js, Quasar, Node.js, Feathers.js and MongoDB, working directly with the CTO through weekly milestones.

Web Development Intern | Satoripop

Jul 2020 - Aug 2020 | Sousse, Tunisia (Hybrid)

- Built a Vue.js and Laravel HR platform with role-based dashboards, documented APIs with Swagger/OpenAPI and converted a PSD design into a responsive e-commerce frontend.

EDUCATION

Engineer's Degree in Software Engineering | ISSAT Sousse, Tunisia | Sep 2021 - Jun 2024

Bachelor's Degree in Computer Science | ISSAT Sousse, Tunisia | 2018 - Jul 2021

CERTIFICATIONS AND LANGUAGES

Cisco CCNA: Introduction to Networks (2022) | Microsoft MTA: Python, Database Fundamentals, JavaScript, HTML/CSS (2019-2021)

English (Fluent) | French (Intermediate) | Arabic (Native)