

Amine FATHALLAH

Senior Full-Stack Developer · Cloud & Data · AI Integration

Paris, France · +33 7 69 57 44 11 · amine.fathallah.dev@gmail.com · aminefathallah.com · linkedin.com/in/aminefathallah

PROFILE

Senior Full-Stack JavaScript Developer with 6+ years of experience, specialized at the intersection of web development, cloud data engineering, and AI integration. Enterprise experience (L'Oréal / Capgemini) on international-scale systems (BigQuery, Data Studio, GCP), complemented by continuous R&D on AI architectures (LLM agents, RAG). Able to cover the full product cycle: scoping, design, development, data pipelines, deployment, and production maintenance.

PROFESSIONAL EXPERIENCE

Capgemini — Senior Full-Stack Developer · Cloud & Data

Paris · Feb. 2023 – Present

Client: L'Oréal Group

Long-term mission on the Resolver project — product management, QR code traceability, and analytics at international scale.

- Owned the full feature-creation cycle, from scoping to delivery: brainstorming workshops, Figma mockups, development, iterative demos, and feedback integration through to final validation.
- Revamped the authentication system (Sign Up / Sign In) — secure flow and simplified UX.
- Rebuilt the search bar (interface and logic), unifying all searches under a single interface.
- Designed a self-service QR code customization tool for business teams.
- Optimized the product import module and improved data-flow reliability.
- Industrialized unit and E2E tests (Jest, Cypress) — raised code coverage to ~90%.
- Built and optimized BigQuery queries and datasets to analyze millions of QR scans, Product API health, and redirection flows.
- Designed Data Studio dashboards for product and marketing KPI tracking (Google Analytics integrated).
- Authored technical and functional documentation on Confluence, with tutorials and guides for the teams.

Stack: React · Next.js · Node.js · TypeScript · BigQuery · Cloud SQL · Data Studio · Google Analytics · Figma · Cypress · Jest · GitHub · Agile/Scrum

Conserto — Full-Stack Developer

Rennes · Jan. 2022 – Jan. 2023

Client: ITGA

Web and mobile application development for the digitalization of ITGA's services.

- Designed and built performant, responsive web (Angular) and mobile (Flutter) interfaces.
- Automated testing raising code coverage above 80% (Jest, SonarCloud).
- Proactive production-incident management ensuring strong application stability.
- Continuous integration (GitLab CI/CD, Docker) and Agile / Scrum collaboration.

Stack: Angular · Flutter · Node.js · Docker · GitLab · Jest · SonarCloud

GOMYCODE — Full-Stack Developer (MERN)

Lyon · Sept. 2020 – Dec. 2021

Web projects in a startup / edtech environment, focused on scalable digital platforms.

- Full-featured applications on the MERN stack (MongoDB, Express, React, Node.js).
- Modern, responsive interfaces optimized for UX and performance.
- Best practices: clean code, modular architecture, debugging.

Stack: MongoDB · Express.js · React.js · Node.js · Git · REST APIs

Magneti Marelli — Software Engineer

Châtellerault · Jan. 2018 – Aug. 2020

Development and validation of software solutions in an international industrial environment.

- Designed internal tools for software testing and validation.
 - Automated testing and analysis procedures, improving reliability and delivery times.
 - Collaborated with international technical teams (Italy, India, China) and trained new team members.
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PROJECTS & ACHIEVEMENTS (PERSONAL R&D)

Halo Store — **AI e-commerce agent**. E-commerce platform embedding a conversational AI agent (Vercel AI SDK + Claude API) that assists the shopping journey in natural language. *Next.js · Supabase · Tailwind · Vercel*.

B2B Scraper Pro — **Data & lead-generation platform**. Multi-source aggregation (Google Maps, Serper, Apify, Google Custom Search) of 30,000+ records, enrichment, scoring algorithm, real-time dashboard, and lightweight CRM. *Next.js · Express · Supabase · Claude API · Telegram Bot*.

Jarvis — **Local AI agent (ReAct architecture)**. Autonomous Python agent (ReAct pattern, Ollama) exploring the internals of LLMs: inference, tool-calling, quantization. *Python · Ollama · LLM*.

Portfolio — **aminefathallah.com** Full-stack portfolio built from scratch, crafted for design, performance (Core Web Vitals), and SEO. *Next.js · Tailwind · Vercel*.

TECHNICAL SKILLS

Front-End	Next.js · React.js · Angular · TypeScript · JavaScript (ES6+) · Tailwind CSS · HTML5 · CSS3
Back-End	Node.js · Express.js · REST APIs
Mobile	React Native / Expo · Flutter
Cloud & Data (GCP)	BigQuery · Cloud SQL · Data Studio · Google Analytics · Cloud Run
Databases	PostgreSQL · MySQL · MongoDB · Supabase
AI Integration	Claude API (Anthropic) · Vercel AI SDK · Conversational agents · RAG · Prompt Engineering
DevOps & Tools	Vercel · Docker · CI/CD · GitHub Actions · Git · Postman · Figma · Confluence
Quality & Methods	Jest · Cypress · SonarCloud · Agile / Scrum · End-to-end delivery

EDUCATION & CERTIFICATIONS

In progress	Google Professional Cloud Developer — structured certification program (Capgemini cohort)
2017	Master's Degree in Computer Science — Université de Lorraine
2015	Engineering Degree — École Nationale d'Ingénieurs de Monastir

LANGUAGES

English: Fluent · French: Bilingual · Arabic: Native