

Mamadou CISSE

Full-Stack Expert NestJS/Angular • GCP DevOps Architect

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■ PROFESSIONAL SUMMARY

Full-stack engineer, ten years of code. I design and build SaaS platforms from scratch, and modernize existing ones, from backend to GCP DevOps, on one principle: ship fast without cutting corners. Open source contributor, my NestJS and Angular tools run in production.

Measurable Impact

- 86% faster deployments and 8x on critical pages (Qualineo)
- Infrastructure costs cut from ~\$1000 to ~\$100 per month
- SaaS products designed and built from scratch, from concept to production

■ PROFESSIONAL EXPERIENCE

Full-Stack Developer NestJS/Angular/React & GCP DevOps Architect, Freelance

Paris, France • October 2025 - Present

- Supporting tech startups and SMEs in designing and modernizing SaaS platforms, from backend to GCP DevOps.
- High-impact engagements where NestJS, Angular, React and GCP DevOps generate real business value: client acquisition, scalability, cost reduction.

Stack: NestJS, Angular, React, TypeScript, PostgreSQL, Redis, GCP, AWS, Docker, GitHub Actions, Nx.

Full-Stack Developer NestJS/React, Qualineo

Lille, France • April 2022 - July 2025

- Cut deployment time by 86% and made critical pages 8x faster; infrastructure costs cut from ~\$1000 to ~\$100 per month.
- Complete application refactoring: REST/GraphQL API with NestJS, design patterns, more modular and extensible architecture.
- CI/CD pipeline overhaul (test parallelization, Docker image optimization) and contributions to the platform's open-source libraries.
- 20+ high-impact business features shipped, directly contributing to new client acquisitions.

Stack: NestJS, React, GraphQL, TypeScript, PostgreSQL, Redis, AWS (CDK, ECS, RDS, S3, Lambda), Docker, GitHub Actions.

Full-Stack Developer then Lead Developer, Université Gustave Eiffel

Champs-sur-Marne, France • October 2018 - September 2021

- Lead on PLaTon (2020-2021): hybrid Angular × Django architecture with Nx micro-frontends, a dedicated language (DSL) and integrated IDE for teachers; took it from prototype to a platform running in production at the university.
- Premier Langage (2018-2020): complete frontend migration from Django to Angular (SPA) and an integrated web IDE (syntax highlighting, autocompletion, real-time validation).

Stack: Angular, Nx, TypeScript, Django, Python, PostgreSQL, Redis, Elasticsearch, Docker, GitHub Actions.

Full-Stack Developer, Freelance

Paris, France • September 2015 - September 2018

- End-to-end development of web and mobile applications, complete project management from conception to production.
- **Stack:** Angular, Node.js, Firebase, GCP.

■ EDUCATION

Master's Degree in Computer Science

Université Gustave Eiffel, France | 2019 - 2021

Bachelor's Degree in Mathematics and Computer Science

Université Gustave Eiffel, France | 2015 - 2019

■ PROJECTS

Career Copilot

AI-Powered SaaS Platform | [Link](#)

- **Full-stack NestJS + Angular architecture:** AI-powered interview preparation platform, developed from scratch with modern, scalable architecture.
- **NestJS backend on GCP Cloud Run:** REST APIs, Gemini integration, cover letter generation, resume analysis, interview simulations.

PLaTon

Open Source E-Learning Platform | [Link](#)

- **Complete architectural overhaul NestJS + Angular:** Migration from legacy stack to modern, modular architecture, used in production by Université Gustave Eiffel.
- **Advanced NestJS backend:** REST + GraphQL APIs, PostgreSQL, Redis, automated code evaluation system, secure code execution.

NestKit

Open source NestJS modules | [Link](#)

- Two NestJS modules published open source, around 10,000 downloads per month: nestjs-expand (relation expansion and field projection for REST APIs, Stripe style) and nestjs-pg-pubsub (real-time subscription to PostgreSQL changes via triggers).
- Solve recurring back-end architecture problems, with buffering, batching and lock handling for reliability in a distributed context.

■ SKILLS

- **Backend & API:** NestJS · Node.js · TypeScript · REST · GraphQL
- **Frontend:** Angular · React · Nx · RxJS · Signals
- **Data:** PostgreSQL · Redis
- **Cloud & DevOps:** GCP · Firebase · AWS · Docker · GitHub Actions · Pulumi
- **Observability:** OpenTelemetry · Grafana · CloudWatch
- **Architecture:** Hexagonal · DDD · Clean Architecture · Event-Driven · Micro-frontends
- **AI:** Claude · Gemini · Google ADK · Vertex AI · RAG

■ LANGUAGES

- French
- English

■ PUBLICATIONS

Technical articles on NestJS, Angular, software architecture and advanced patterns:
medium.com/@mciissee