

Ny Hasinavalona Randriantsarafara
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Administrative Status: EU Blue Card Holder (Passeport Talent) – Eligible for simplified mobility within the EU.

SENIOR BACKEND & CLOUD ENGINEER | SOFTWARE ARCHITECT

Senior Backend & Cloud Engineer with a strong focus on system reliability and clear architecture.

I prefer to write design specs before coding ("design-then-implement") and favor simple, deterministic rules to ensure system stability.

I build and maintain high-traffic APIs, handle complex database migrations safely, and modernize cloud infrastructure to make it easier for teams to maintain.

PROFESSIONAL EXPERIENCE

Software Engineer | Warner Bros. Discovery (Eurosport) | Issy-les-Moulineaux, France | March 2024 – Present

- Infrastructure Modernization: Migrated backend services from Serverless framework to Terraform to standardize cloud infrastructure and drastically improve maintainability
- High-Traffic APIs & CMS: Extended the core GraphQL content API serving Eurosport, adapting it for major product launches including the Olympics and HBO Max rollouts
- Zero-Downtime Migrations: Engineered and executed a seamless data migration of picture storage from DynamoDB to PostgreSQL, ensuring dual-run safety and zero disruption to editorial teams
- Reliability & Performance: Introduced advanced caching strategies on high-read endpoints to reduce backend load and stabilized platforms via SQS/SNS integrations during high-visibility sports events
- Analytics & SEO Accuracy: Designed robust data layer patterns ensuring precise SEO feeds and downstream tracking (AppsFlyer) across dynamic URI contexts

Software Engineer | Euronews | Lyon, France | March 2023 – March 2024

- Scale: Maintained and optimized backend APIs and AWS EC2 infrastructure handling ~2 million daily active users
- Quality Assurance: Led a massive quality initiative, increasing overall platform automated test coverage from 5% to 65%, and TypeScript-specific coverage from 20% to 55%
- Modernization: Migrated critical legacy components from JavaScript to strictly typed TypeScript

Lead Developer | Numer - HEI | Paris, France | January 2022 – March 2023

- End-to-End Leadership: Directed the development of a web and mobile platform for craftsmen from initial concept to production deployment
- Cross-functional Coordination: Orchestrated the mobile, back-office, and landing page teams while shaping core architectural decisions

Software Developer | Novity | Antananarivo, Madagascar | September 2021 – March 2023

- Test-Driven Culture: Boosted React/TypeScript frontend test coverage from 50% to 70% and Java/Spring backend coverage from 20% to 39%
- Mentorship: Coordinated and mentored three technical teams while transitioning a monolithic system toward an API-driven architecture

Software Engineer | Bocasay | Antananarivo, Madagascar | February 2020 – August 2021

- Performance: Refactored a legacy monolith into a Single Page Application (SPA), improving overall application speed by 40% and reducing load times by 30%
- CI/CD Optimization: Streamlined delivery workflows, achieving a 25% reduction in time-to-market

Software Engineer | ITRAS Group | Antananarivo, Madagascar | October 2018 – February 2020

- Migration & Optimization: Upgraded frontend to Angular/TypeScript and backend to Spring Boot, successfully slashing load times by 40%
- Testing Discipline: Achieved an unprecedented increase in code coverage, going from 0% to 82%

Previous experience includes Software Developer roles at Allo Application (Jan 2017 – Sep 2018), where I reduced API response times by 30%.

R&D & ENGINEERING INITIATIVES

- **Visa Insight (NLP & AI-Assisted Platform):** Designed an end-to-end case review platform using a rules-first multilingual extraction pipeline (French/Malagasy). Built an evidence-linked workspace enabling analysts to validate machine outputs against raw texts, deployed via fully automated CI/CD to a self-hosted VPS
- **Lalana & Lemurion (Geospatial & Transit Systems):** Engineered a geospatial navigation stack from scratch including an OSM ingestion pipeline and a routing backend with Redis caching. Built a full-stack transit planning platform with an editable network graph, distributed tracing, and k6 load testing
- **Cloud Platform & Tooling:** Operate a personal cloud platform featuring Caddy ingress, PostgreSQL, Redis, and a Prometheus/Grafana observability stack. Authored "Maestro", an Elixir-based orchestrator utilizing state machines and supervision trees to automate ticket-to-PR workflows

TECHNICAL SKILLS

Backend & APIs: Node.js, TypeScript, GraphQL, REST

Cloud & Infrastructure: AWS (Lambda, API Gateway, DynamoDB, SQS, SNS, EC2), Terraform, Serverless Framework, CI/CD pipelines

Data & Observability: PostgreSQL, OpenSearch, Elasticsearch, Redis, Prometheus, Grafana, ETL pipelines

Methodologies: Design-then-implement, End-to-End Ownership, Unit Testing & Test-Driven Development (TDD)

LANGUAGES & EDUCATION

Languages: Malagasy (Native) - French (Fluent), English (Professional Working Proficiency)

Education: Master's Degree in Computer Science, Centre de télé-enseignement National de Madagascar (Jan 2017 – Mar 2019)