Michaël Maheriniaina

Senior full-stack developer

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Summary

Full-stack developer with 7 years of experience, lead developer since 2023. I build web applications for banks and public institutions, and since 2021 I have been working on a regulatory compliance SaaS used by more than 500 companies. Open to freelance projects and full-time positions, working remotely.

Work experience

Lead developer, Bocasay

September 2023 – present · Software services company · Client: EcoMundo

- Technical lead on EcoMundo, a regulatory compliance SaaS for chemicals and cosmetics (Cosmetic Factory, SDS Management, Chemical Factory), used by more than 500 companies, including LVMH, Decathlon and EDF.
- Lead a team of developers on large features and coordinate releases.
- Built an internal AI agent tool for bug fixing: each bug report is routed to the related code, business context and data to check (RAG, context management). Bugs are located and fixed faster.
- Stack: React, ExtJS, Java Spring Boot, GraphQL, SQL.

Freelance full-stack developer, BMOI (Banque Malgache de l'Océan Indien)

2023 – present · 4 applications in production

- **MID, interbank foreign exchange market** (lead developer, team of 4 to 5): two web applications, one for client companies and one for the bank's departments, replacing a Microsoft Access tool and a paper process for foreign exchange orders. Matching engine that allocates orders against interbank liquidity, real-time notifications, audit log. More than 100 client companies. Laravel, PostgreSQL, React, TypeScript, WebSocket, Docker, GitHub Actions.
- **BMOI LINK** (project manager and lead developer, team of 6): fully online account opening for the Malagasy diaspora. One-time code verification (SMS, email), FATCA declaration, recorded video interview with an advisor on a self-hosted video server (LiveKit), back office with Azure AD and LDAP sign-in. Laravel, React, TypeScript, RabbitMQ, Docker, GitLab CI.
- **Intranet** (lead developer and architect, team of 4): modular monolith with 14 business modules (HR, training, quality, news), permissions for 10 user profiles, Azure AD single sign-on. More than 500 employee users. NestJS, React, PostgreSQL, Redis, BullMQ, Podman on Red Hat, Playwright.
- **Loan and leasing simulators** on the bank's public website, with a back office where the bank manages the calculation rules without a developer. WordPress plugin, PHP, React.

Full-stack JavaScript developer, Bocasay

September 2021 – August 2024 · Software services company · Client: EcoMundo

- Fixed bugs reported by clients and built features requested by the product owners on the EcoMundo SaaS.
- Worked on a codebase of several million lines, with business logic spread across front end, back end and database.
- Stack: React, ExtJS, Java Spring Boot, GraphQL, SQL.

Full-stack PHP developer, Ingenosya

August 2019 – September 2021 · Software services company · Clients: FMFP, ARMP

- **FMFP** (lead developer, team of 2 to 3): management of training projects funded by Madagascar's vocational training fund (online submission, eligibility review, committee minutes). PHP, CodeIgniter, MySQL, jQuery, Bootstrap.
- **ARMP** (developer, team of about 10): Madagascar's public procurement platform, publishing calls for tenders and submitting bids online. Angular, PHP, CodeIgniter.

Skills

- **Back end:** PHP (Laravel, CodeIgniter), Node.js (NestJS), Java (Spring Boot), REST APIs, GraphQL
- **Front end:** React, TypeScript, JavaScript, Angular, ExtJS, Tailwind CSS, Material UI
- **Databases:** PostgreSQL, MySQL, SQL, Redis, Drizzle ORM
- **DevOps:** Docker, Podman, Nginx, GitHub Actions, GitLab CI, Linux (Red Hat)
- **Real time and message queues:** WebSocket, SSE, RabbitMQ, BullMQ
- **Identity:** Azure AD SSO, LDAP, JWT
- **AI:** AI agents, RAG, context management
- **Testing:** Playwright (unit and end-to-end)
- **Leadership:** technical lead, architecture, project management, release coordination

Education

Master's degree in Computer Engineering, CNTEMAD, 2022

Languages

Malagasy: native · French: fluent · English: professional working proficiency