Sandratra Andriamampionona

Full-stack TypeScript Developer

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Portfolio LinkedIn WhatsApp

PROFILE

Backend-focused full-stack TypeScript developer specializing in business applications. I turn complex processes into reliable NestJS APIs, PostgreSQL models, React interfaces and n8n workflows, from functional discovery through production delivery.

BACKEND	DATA	INTERFACES	AUTOMATION
NestJS, Node.js, REST APIs	PostgreSQL, Prisma, Redis	React, React Native, Angular	n8n, Webhooks, OAuth 2.0

PROFESSIONAL EXPERIENCE

Jul. 2024 - present

Backend-focused Full-stack Developer

Surf Web Development

- Design and development of business applications with React, NestJS, PostgreSQL and Prisma.
- Data modelling, REST API development and translation of business rules into reliable workflows.
- n8n workflows and external integrations; testing, documentation, deployment and maintenance.

Jul. 2023 - Jun. 2024

Developer

BigExpansion

- Built and maintained responsive showcase websites presenting company activities and services.
- Worked on BigExpansion.eu and ProfilsSports.com, from content integration through deployment.

bigexpansion.eu | profilssports.com

Mar. 2022 - Jul. 2023

Developer

Public Procurement Regulatory Authority

- Contributed to E-GP across e-Contract, e-Tender File and e-Planning modules.
- Built Angular interfaces, business forms and validations; integrated REST APIs and role rules.
- Resolved defects and contributed to testing, reviews and deployment.

2021

Software Developer Intern

Ministry of Economy and Finance

- Contributed to the development of a document management application.

SCOPE OF CONTRIBUTION

Business analysis Actors, rules, states and edge cases	**Architecture** Modules, API contracts and responsibilities
Data Relational schemas, integrity and history	**Interfaces** Operational web and mobile journeys
Quality Validation, testing and documentation	**Delivery** Deployment, maintenance and evolution

WORKING METHOD

01	02	03	04
Clarify the need	Structure domain, APIs and data	Build the journeys	Test, deliver and maintain

MAJOR PROJECTS

A selection of business products presented within the actual scope of my work. Internal information and client data remain confidential.

- **Fydelicoli Business Investor**
  Freelance engagement - functional product
  Platform for investors, contracts, interest, maturities, repayments, permissions and contractual documents.
  Contribution : Business-rule analysis, data models, NestJS APIs, React interfaces, financial calculations, maturity workflows and PDF generation.
  Stack : React, TypeScript, NestJS, PostgreSQL, Prisma, PDFKit

- **LeadFlow - Lead Management Automation**
  Surf Web Development - production solution
  Sales-enquiry collection solution with automatic lead registration and immediate confirmation.
  Contribution : Requirements analysis, React interface, n8n workflow, Google Sheets and SMTP integrations, security and complete VPS deployment.
  Stack : React, TypeScript, Vite, n8n, OAuth 2.0, SMTP, Docker, Nginx

- **E-GP - Electronic Public Procurement**
  Regulatory Authority - production platform
  Digitization of planning, tender files, contracts, roles and official document workflows for public procurement.
  Contribution : Angular interfaces, complex forms, REST integration, validations, fixes, testing and deployment within a multidisciplinary team.
  Stack : Angular, TypeScript, CodeIgniter, REST APIs, MySQL

- **Fy DeliColi Delivery**
  Freelance engagement - functional product
  Application covering the parcel lifecycle: creation, batches, logistics events, incidents, proof of delivery and public tracking.
  Contribution : Business analysis, architecture, frontend/backend development, data modelling, roles, testing and deployment preparation.
  Stack : React, NestJS, PostgreSQL, Prisma, Jest

- **Sports Facilities Management**
  Surf Web Development - French local authority
  Platform for facilities, recurring bookings, schedule conflicts, maintenance, notifications and operational documents.
  Contribution : Backend-focused full-stack development: APIs, data model, booking rules, React interfaces, Swagger documentation and Jest tests.
  Stack : React, NestJS, PostgreSQL, Prisma, Jest, Swagger

- **Fydelicoli Money**
  Freelance engagement - MVP in development
  Web and mobile MVP designed to trace money-transfer operations across customers, agents and administrators.
  Contribution : MVP scoping, state machine, web/mobile/API architecture, access control, audit history and asynchronous processing preparation.
  Stack : React, React Native, NestJS, PostgreSQL, Redis, BullMQ, Docker

SKILLS

Backend & APIs	TypeScript, NestJS, Node.js, REST APIs, JWT, Swagger
Data	PostgreSQL, Prisma, MySQL, Redis, relational modelling
Frontend & mobile	React, React Native, Angular, TanStack Query, HTML, CSS
Automation & integrations	n8n, webhooks, Google Sheets API, OAuth 2.0, SMTP
Quality & delivery	Jest, Docker, Nginx, Linux VPS, HTTPS, CI/CD, Git
Previous experience	CodeIgniter, Spring Boot
Zoho - hands-on practice	CRM, Creator, Books, sales modules and customer processes in trial accounts

EDUCATION & LANGUAGES

Master's degree in Information Systems, Software Engineering and Artificial Intelligence
Institut Supérieur Polytechnique de Madagascar - 2022

Malagasy: native | French: fluent | English: intermediate