



DINAHASINA
MICHEL ANGE

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Stack technique

Backend

Node.js · NestJS · Fastify · FastAPI · Django · Fast-gRPC

Workflow & Task Orchestration

Celery · Temporal

Frontend

Next.js · React

Données

PostgreSQL · GraphQL · gRPC
· Kafka · Redis · MinIO

Infra & DevOps

Docker · CI/CD · VPS · Cloud · Kubernetes

Autres

C++ / Python · ERC-20 · WebSocket
Linux / Bash · Git · GitHub Actions

DINAHASINA

MICHEL ANGE

Fullstack Developer · Distributed Systems

Fullstack Developer (Python/TS) specialized in SaaS. I design resilient microservices. I ensure fast application scaling across cloud, VPS, or hybrid infrastructures.

Full-Stack Developer

07/2024 – Présent

RID Technology · Remote

- **Data Architecture Overhaul:** Transitioning from a monolithic, blocking system to a fully independent microservices architecture.
- **Internal Workflow Design:** Centralized ingestion of large-scale data via MinIO. Implementation of the CQRS pattern, asynchronous workload distribution using Temporal workers, Saga orchestration through Temporal workflows, and high-performance inter-service communication with gRPC.
- **AI & Reporting Layer:** Deployment of an API Gateway to expose data through the MCP protocol. Development of a custom export engine, repositioning the ERP toward predictive analytics and turning it into the core driver of the business model.
- **Dashboard & Control Interfaces:** Development of back-office tools and real-time views. Implementation of interactive charts and data-entry interfaces. Ergonomic design achieved through lazy loading, centralized state management, and a clean architecture that streamlines hydration via a facade separating data from the structural skeleton.
- **Product Lifecycle Management:** CI/CD pipelines, isolated environments (testing/pilot/production), multi-stage deployments validated by unit tests, and Kubernetes orchestration for resilience and scaling.

Full-Stack Developer

09/2022 – 07/2024

Natix-Group (ATSCOM) · Antananarivo

- **SaaS Design & Development** — Designed and developed multiple cloud-native SaaS platforms with high scalability constraints under small team environments, focusing on high efficiency and operational simplicity.
- **Backend Architecture** — Built backend architectures exposing REST and GraphQL APIs, utilizing PostgreSQL for persistence and Redis caching for performance optimization.
- **Distributed Systems** — Implemented distributed architectures featuring microservices, event buses, choreographed Sagas, and critical business workflows managed resiliently and asynchronously.
- **Full-Stack Development** — Delivered end-to-end full-stack development (Next.js, Node.js, FastAPI) integrated into cloud environments (Google Cloud, VPS), successfully launching product-oriented services into production.
- **Ethereum Backend Integration** — Integrated Web3 capabilities into business workflows, managing ERC-20 transaction logic, on-chain/off-chain token conversion operations, and interactive exchange mechanisms within the platform.
- **Real-Time ERP Development** — Designed and evolved a multi-module real-time ERP (Django / Next.js / Node.js) covering operations and notification management, featuring critical business process synchronization and real-time event listening.

Langues

Malagasy — natif

Français — avancé

Anglais — Professionnel

Intérêts

- Basketball
- Crypto / Blockchain
- Échecs
- Architecture logicielle

C++ / Python Developer

04/2019 – 06/2022

Futurmap Data · Antananarivo

- **GIS/CAD Extension Development** — Developed C++11/C++17 and Python extensions for GIS/CAD environments (QGIS, AutoCAD, GstarCAD, TerraScan) utilizing native APIs (ObjectARX, Python bindings).
- **Low-Level Parsing Modules** — Implemented low-level parsing modules for proprietary formats, focusing on memory management, optimized I/O, buffering, and massive data processing.
- **Multithreaded LiDAR Pipelines** — Built multithreaded LiDAR pipelines featuring streaming, density reduction, buffer management, and real-time CPU/memory optimization.
- **Geospatial Data & Rendering Optimization** — Optimized data access and geospatial rendering through selective loading/unloading, timestamp utilization, and display cost minimization.
- **Component Reuse Architecture** — Designed architectures focused on component reuse (SOLID principles), combining low-level C++ coupling with a Python layer for GIS/CAD interoperability.

FORMATION

Bachelor's Degree in Information Technology

2017 – 2020

ESTI – École Supérieure des Technologies de l'Information, Antananarivo

Programme SESAME

10/2016 – 2017

SESAME Preparatory School, Antananarivo

- Admitted through a highly selective program.
- Full scholarship recipient during all 3 years of the Bachelor's degree at ESTI