

Thierno DIALLO

Senior Software Engineer

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Portfolio <https://thierno.dev> · **LinkedIn** [linkedin.com/in/thiernotev](https://www.linkedin.com/in/thiernotev) · **GitHub** github.com/tmbd

PROFILE

Senior software engineer with five years' experience on Java/Quarkus backend systems for healthcare software used every day by doctors. I work from architecture through to production: identity and API security, cloud migrations, technology choices and documentation. Looking for a technical leadership role that stays close to the code.

SKILLS

Backend	Java, Quarkus, REST, JPA/Hibernate, Maven, Python
Identity & security	OAuth 2.0, OpenID Connect, JWT, token exchange, OpenAPI
Data	PostgreSQL, Apache AGE, Redis, MongoDB, Liquibase
Cloud & operations	Azure, Docker, Kubernetes, Helm, GitLab CI
Testing & tooling	JUnit 5, Postman, JMeter, Git/GitLab, UML, AI agents

EXPERIENCE

Senior Software Engineer — CompuGroup Medical, Montpellier

Sept. 2021 – present

Multi-tenant healthcare SaaS platform (patient records, prescriptions, invoicing) used in several countries.

- **Storage migration to Azure Blob Storage** — the service every clinical document passes through, moved from self-hosted MinIO to Azure with no downtime and no data loss: routing decided in the database, a feature toggle as an instant fallback, and Python tooling run as a Kubernetes job (parallel copying, resumable, verified before each switch).
- **Federated single sign-on (OIDC)** — designed and implemented end to end: authentication delegated to the enterprise identity provider, roles and permissions kept under the platform's control. In production.
- **OAuth 2.0 token exchange (RFC 8693)** — lets partner products reach platform services through scoped tokens, without a second sign-in. In production.
- **Dynamic configuration service** — designed and implemented a service resolving, per user and per integration, settings that had been scattered through the code: changes and exceptions are now configuration rather than deployments.
- **Graph-based classification** — evaluated Apache AGE against Neo4j: graph capabilities without adding a second database to operate; major contributor to the Java/Quarkus implementation.
- **AI agent governance** — created the framework the team uses: governance model, weighted scoring rubric and Python evaluation tool, reusable skills and orchestration workflows.
- **Ongoing** — code reviews, production incident support, architecture documentation and knowledge transfer.

Final-year internship — KimiaPay, France (remote)

2021

Sole technical owner of a salary-advance product: service-oriented architecture (mobile application, back office, business services, REST APIs), deployed and ready for a pilot phase.

Engineering internship — Amadeus, Nice

2020

Feasibility study for migrating a flight-search application server from Spring/JBoss to Quarkus; decision-ready reference documenting blockers, solutions, trade-offs and migration costs.

PERSONAL PROJECT

Laajal Sa Diine — a platform of short audio answers, designed and built on my own: React/TypeScript client, Node.js API, MongoDB, Amazon S3, weighted full-text search tuned for French. Provisioned and operated on a Hetzner Cloud server (Docker, Traefik, Cloudflare). Online, used and maintained — laajalsadiine.com.

EDUCATION

- 2021 Engineering Degree — École Centrale de Lyon (*double degree*)
- 2021 Engineering Degree in Computer Engineering — École Supérieure Polytechnique de Dakar
- 2017 University Diploma of Technology (DUT) in Computer Science — École Supérieure Polytechnique de Dakar

LANGUAGES

French and English — advanced professional proficiency in both; English used daily at work.

Detailed case studies, projects and articles: <https://thierno.dev>