

AMINE OUICHOU

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[\[LinkedIn\]](#)



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[\[Portfolio\(WIP\)\]](#)

PROFESSIONAL SUMMARY

Backend Developer and DevOps Engineer with hands-on experience architecting and building secure, scalable applications in demanding sectors such as healthcare technology. Experienced in implementing production-ready solutions. Proficient in Python (FastAPI & Django), designing REST APIs, microservices architecture, and implementing Zero-Trust security principles with Istio and Keycloak. Adept at containerizing applications with Docker and embedding observability with OpenTelemetry. Seeking to leverage full-stack capabilities in a Backend or DevOps focused role.

EDUCATION

42 Paris

Expert in IT Architecture Master's degree | 2022 - present

TECHNICAL SKILLS

- **Backend Development:** Python, Django, FastAPI, REST APIs, Redis, PostgreSQL, Domain-Driven Design (DDD)
- **DevOps & Cloud:** Docker, Docker Compose, Kubernetes, Istio (Service Mesh), GitHub Actions, Azure AKS, AWS S3, Cloudflare R2
- **Security & Identity:** Zero-Trust Architecture (ZTA), Keycloak (OIDC, JWT, RBAC), mTLS, Istio Authorization Policies, 2FA.
- **Monitoring & Observability:** OpenTelemetry, Prometheus/Grafana, Structured Logging
- **Frontend & Full-Stack:** Next.js, React, JavaScript, ECharts
- **Tools & Methodologies:** Git, Jira, Postman, DBeaver, Shell, C, C++, Agile/Scrum

PROFESSIONAL EXPERIENCE

Full-Stack Developer Intern | Qynapse | [05/2025] - [11/2025]

- Architected and developed a **secure, production-ready FastAPI backend** for a healthcare platform using **Domain-Driven Design**.
- Implemented a **Zero-Trust security model** with Istio (mTLS, authorization policies) and Keycloak (OIDC, RBAC) for handling sensitive medical data.
- Ensured **production observability** by integrating structured audit logging and OpenTelemetry tracing from the ground up.
- Authored comprehensive technical documentation on architecture and security, establishing team best practices
- Built and **documented a reusable Python library for Keycloak integration**, adopted company-wide, improving development efficiency.
- Developed **data processing modules and analytics features** for medical imaging results, including brain atrophy analysis.
- Developed interactive data visualizations using Next.js and ECharts, creating clinical dashboards for brain atrophy analysis and patient cohort tracking

NOTABLE PROJECTS

42 Paris | Developer Student

- **ft_transcendence**: a real-time Pong-inspired web application using Django and React.
- **ft_irc**: an RFC-compliant IRC server in C++
- **minishell**: a custom shell in C with process management and signal handling.

Personal Project | Cloud-Native Portfolio (WIP)

- Full-stack deployment with Next.js and Django.
- Automated CI/CD pipelines using GitHub Actions.
- Gained practical experience with cloud object storage (AWS S3) for managing user-generated content in a personal project, prior to migrating to Cloudflare R2.