AMINE OUICHOU

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[in] [LinkedIn]   [GitHub]   [Portfolio(WIP)]

PROFESSIONAL SUMMARY

Junior Backend Developer and DevOps Engineer with experience in building scalable systems and automating cloud-native solutions. Currently advancing technical proficiency at 42 Paris through rigorous projects in system architecture and full-stack development. Adept at optimizing CI/CD pipelines, designing REST APIs, and deploying Kubernetes clusters. Passionate about solving complex challenges with clean, efficient code.

EDUCATION

42 Paris

System Programming & Architecture | 2022 – 2025

Expert in IT Architecture Master's degree | 2025 - present

TECHNICAL SKILLS

- **Backend Development:** Python, Django, REST APIs, PostgreSQL
- **DevOps & Cloud:** Docker, GitHub Actions, Kubernetes, Azure DevOps, Azure AKS
- **Monitoring & Databases:** Prometheus/Grafana, Azure Monitor, PostgreSQL
- **Full-Stack:** React, JavaScript, WebSocket, Next.js
- **Security:** JWT, 2FA, OAuth2.
- **Tools:** Git, Shell, C, C++, Git, Postman, cert-manager

PROFESSIONAL EXPERIENCE

42 Paris | Developer Student

ft_transcendence: Development of a real-time Pong-inspired web application using Django and React.

- Designed a secure REST API (JWT) with Django.
- Modeled a PostgreSQL database for user and tournament management.
- Implemented an Nginx reverse proxy for SSL termination and request routing.
- Managed Docker microservices (Nginx reverse proxy, backend API, CDN).
- Integrated OAuth2 with 42 for single sign-on authentication.
- Implemented 2FA and GDPR-compliant user data management.
- Validated 40+ API endpoints using Postman.
- Documented API workflows to streamline frontend integration.
- Automated deployments and testing via Shell scripts.

ft_irc: Built an RFC-compliant IRC server in C++ supporting 50+ concurrent users.

minishell: Developed a custom shell in C with process management and signal handling.

Personal Project | Cloud-Native Portfolio (WIP)

- Full-stack deployment with Next.js (frontend) and Django (backend) on Azure.
- Deployed AKS cluster with ingress-nginx and cert-manager.
- Automated CI/CD pipelines using GitHub Actions for multi-stage Docker builds.
- Orchestrated containers via Docker Compose with elastic scaling.
- Configured automated TLS/HTTPS with Nginx and cert-manager.