Mohamed Karmous

DevOps, Cloud &AI Infrastructure Engineer | Full-Stack Developer

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Open to PFE internships Mohamed Karmous Mohamedkrms karmsdev.com



ABOUT

Dedicated Computer Science student specializing in DevOps, Cloud Engineering, and Full-Stack Web Development. Passionate about the entire software lifecycle, from application code to automating infrastructure and maintaining production-facing services. I build real-world platforms and manage self-hosted infrastructure. **Currently seeking a Projet de Fin d'Études (PFE) internship** to contribute to real engineering projects, optimize CI/CD pipelines, and grow within a professional technical team.

EDUCATION

Computer Science 2027
ISITCOM Tunisia, Hammam Sousse
DevOps, Cloud and AI Engineering focus. Expected graduation: 2027.

TECHNICAL SKILLS

DevOps & Cloud Infrastructure
Docker and Docker Compose for multi-service architectures; CI/CD with GitHub Actions for automated, repeatable testing and deployments; deepening Kubernetes, Terraform and AWS for infrastructure as code.

AI Engineering & Automated Pipelines
LLMs, autonomous agents and vector search integrated with backend services; prompt-driven workflows, asynchronous worker queues and self-hosted edge inference pipelines.

Full-Stack Developer
Next.js, React, React Router, Astro, Angular, TypeScript, Tailwind CSS; Node.js and Express.js with SQL/NoSQL databases (MongoDB, PostgreSQL).

Linux & Networking
Arch Linux daily driver with Bash automation; homelab and edge nodes for DNS resolution, zero-trust mesh networking (Tailscale), reverse proxies and self-hosted services.

SELECTED PROJECTS

Raspberry Pi Automated AI Blog Generator
AI Automation
Autonomous pipeline on a Raspberry Pi edge node: scheduled AI jobs research and draft technical blogs, commit to git, and trigger GitHub Actions CI/CD to publish the live site. Tuned for strict CPU/memory limits with systemd automation and health logging.

Ziin.tn
E-commerce platform · Live
Full-stack online store that I developed, deploy and maintain in production.

BacFilJeab
Educational platform · Tunisia · Live
Documentation and a moyenne calculator (grades and subject coefficients) for Tunisian baccalaureate students.

azizoueslati.com
Client project · Delivered
Responsive custom portfolio website built for a client.

Network Optimus
Bash · Linux · DNS
Command-line utility that tests DNS resolvers across endpoints and records results for troubleshooting and comparison.

INFRASTRUCTURE & HOMELAB

Raspberry Pi Zero 2 W running AI automation 24/7, plus Pi-hole (DNS filtering), encrypted DNS (DoH/DoT), Tailscale zero-trust access, and Linux administration on Arch and Ubuntu/Debian Server.

LANGUAGES

Arabic: Native / Mother tongue **English**: Independent **French**: B1 (363), TCF certified

OPPORTUNITIES

I am interested in joining an engineering team where I can contribute to practical projects, learn from experienced engineers, and develop a stronger understanding of production systems. **Areas of interest:**

- DevOps and CI/CD automation
- Cloud infrastructure and AI systems engineering
- Containerization and platform engineering
- AI agent workflows & automated pipelines
- Full-Stack Web Development