Abdellah Darni

Final-year Computer Engineering student · Infrastructure, DevOps, Backend

Casablanca-Settat, Morocco · contact@darni.org
darni.org · github.com/abdellah-darni · linkedin.com/in/darni-abdellah

PROFILE

Looking for a PFE internship starting early 2027 in infrastructure, DevOps or backend engineering. I build backend services and operate the Linux infrastructure under them, from provisioning to postmortems.

EDUCATION

FST Settat, Université Hassan 1er Engineering degree (Cycle Ingénieur, Bac+5), Computer Engineering — 2027

Lycée Technique Errazi, El Jadida CPGE (preparatory classes), MP track: Mathematics and Physics — 2024

EXPERIENCE

ROFEO Academy Infrastructure & DevOps Intern (PFA, 2 months), sole engineer · Casablanca-Settat — Jul – Aug 2026

`Ansible · Moodle 5 · PHP-FPM · PostgreSQL 16 · Redis · nginx · Ubuntu 24.04 · Azure` — darni.org/projects/rofeo-lms

- Ran the build-vs-buy study: customized Moodle 5 over a from-scratch spec; piloted with teachers and students.
- Codified the stack as 9 idempotent Ansible roles; one playbook takes a fresh Ubuntu host to production.
- Automated backup/DR: systemd-timer dumps, rclone offsite (Azure Blob), SHA-pinned rollback, tested restores.
- Fixed silent config drift from handler notifications lost on failed plays (force_handlers, flush_handlers).
- Delivered 3 custom Moodle plugins: child theme, public course pages, parent dashboard.

PROJECTS

Homelab 20+ self-hosted services, test bed and host for my projects — 2024 – present

`Proxmox VE · Docker Compose · Traefik · Tailscale · Pi-hole · OpenTofu · Ansible · Zabbix` — darni.org/projects/homelab

- Fronted all services with one reverse proxy: wildcard TLS (DNS-01), LAN/VPN allowlist, no inbound ports.
- Monitored the homelab with Zabbix; added my SNMP-less fiber router by reverse-engineering its web API.
- Root-caused a Pi-hole/Tailscale circular dependency, fixed with split DNS; subnet-router LXC for remote access.
- Built CI for my LaTeX reports: lint, grammar and reference checks, latexdiff; deploys via an ephemeral Tailscale node.
- Published postmortems (darni.org/blog), e.g. Pi-hole's rate limiter cutting DNS LAN-wide, found via SQL on query logs.

DeepDame real-time multiplayer checkers · academic team of 5 · game backend and Flutter client lead — 2025 – 2026

`Java · Spring Boot · STOMP/WebSocket · Redis · MongoDB · PostgreSQL · Flutter · k3s · k6` — darni.org/projects/deepdame

- Owned live game state: Redis (rolling TTL), write-once to MongoDB; self-healing reads fixed stale-key lockouts.
- Built the STOMP layer: JWT auth on CONNECT, matchmaking, chat, LLM opponent with legal-move fallback.
- Load-tested to saturation at 6,000 concurrent sessions on single-node k3s with a custom k6 STOMP harness.
- Led the Flutter client team in the second semester; hosted production on my homelab behind a Cloudflare Tunnel.

ToDoist personal project · terminal task manager in C — 2025 – present

`C11 · ncurses · SQLite · GNU Make · AddressSanitizer · Valgrind · GitHub Actions` — darni.org/projects/todoist

- Built an event-driven three-panel TUI: redraws only on input, in-place forms, live resize.
- Made every multi-statement write transactional on the SQLite C API, with rollback on any error path.
- Managed memory by hand: single-owner allocations, zero-copy rendering, ASan- and Valgrind-clean.

SKILLS AND LANGUAGES

Infrastructure	Proxmox VE (KVM, LXC), Linux (Debian, Ubuntu, Arch), Docker (Compose), OpenTofu/Terraform, Zabbix, Uptime Kuma, Gotify
Networking	Tailscale, Traefik, Cloudflare (Tunnels, Pages), DNS (Pi-hole, split DNS), nginx, TLS (ACME)
Automation	Ansible (roles, Vault), GitHub Actions (CI/CD), systemd (units, timers), k6, rclone, Make, Git
Programming	C, Python, Java, Dart, SQL, Bash, JavaScript/TypeScript
Backend	Redis, Spring Boot (REST, WebSocket, Security, JPA), Django, PostgreSQL, MongoDB, SQLite, S3, JUnit
Familiar with	cloud-init, Kubernetes (k3s), Azure (VMs, Blob Storage), Prometheus, Grafana, Loki, cgroups v2, NFS, LVM
Languages	Arabic (native), English (C1), French (B1)