

KAZAZ Lahcen

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Summary

Software engineering student with a strong foundation in C, C++, JavaScript, and TypeScript, and growing experience in full-stack development, DevOps, and cloud-oriented workflows. Built solid technical and teamwork skills through project-based learning at 1337 School and practical engineering work. Motivated to contribute to real-world software products in collaborative environments.

Skills

Programming: C++, C, Bash, JavaScript, TypeScript, HTML, CSS, Tailwind CSS

Frameworks & Libraries: Next.js (App Router), React, Node.js, Prisma ORM, pdf-lib, Nodemailer

Databases: PostgreSQL, database migrations, schema design

Automation & AI: n8n Workflows, Tesseract.js OCR, Chatbot integration

Tools and Platforms: Git, Docker, Linux, VS Code, Hostinger SMTP

Concepts: Full-stack development, authentication & security, RESTful APIs, system programming, HTTP, algorithms

Soft Skills: Teamwork, fast learner, time management, problem-solving

Languages: Arabic, English, French

Experience

Full-Stack Intern — InsureNow (InsurTech · Paris) September 2025 – March 2026

- **Insurance Lifecycle & Claims:** Developed the `ClaimDeclaration` entity with risk-type-specific database migrations; built real-time dashboards for contracts and claims accessible to both admins and clients; implemented multi-step quote flows for Construction, Commerce, Freelance, and Restaurant sectors.
- **Payment & Database:** Created and migrated `Payment` and `Contract` tables for the admin dashboard; updated the quote process to include complementary guarantees and pricing; managed idempotent migrations with `IF NOT EXISTS` guards for zero-downtime production deployments.
- **Authentication & Security:** Built a reset-password flow that auto-terminates all active sessions; implemented a robust SMTP email verification system via Hostinger with SPF/DKIM configuration; designed a pre-registration table to let users resume their quote journey without a password.
- **API Integration & Automation:** Fixed and optimized SIREN/SIRET API fetching from `api.gouv.fr` for auto-populated business data; built an automated PDF quote generator with `pdf-lib`; developed a Tesseract.js OCR module integrated with n8n accepting `FormData` and returning extracted text as JSON; refined chatbot session handling and ambiguity resolution logic.
- **Frontend Optimization & UX:** Resolved critical mobile zoom/layout breakage on a 10-step insurance form; added self-service sections (Mes Opérations, Mes Documents, Mes Assurances) to the client profile; integrated search-by-name for admins and clients; built Login, Signup, and Contact pages as the initial onboarding flow.
- **Stack:** Next.js (App Router), React, Tailwind CSS, Node.js, PostgreSQL, Prisma ORM, n8n, pdf-lib, Nodemailer, Tesseract.js, Git.

Education

1337 School (UM6P) — Benguerir, Morocco October 2023 – Present

- Intense peer-to-peer, project-based curriculum.
- Focused on algorithmic thinking, low-level programming, and system architecture.

Faculty of Sciences Semlalia — Marrakech, Morocco 2020 – 2023

- Bachelor's Degree (Bac+2) in Mathematics and Computer Science.

Lycée Cheikh Mohamed Lghdaf — Tan-Tan 2019 – 2020

- Baccalaureate in Mathematical Sciences.

Projects

Webserv — HTTP Server in C++98

- Designed and implemented a fully functional HTTP/1.0-compliant web server from scratch using C++98, with no external libraries.
- Handled GET, POST, and DELETE methods; implemented CGI execution, file uploads, and custom error pages.
- Ensured non-blocking I/O using `epoll()` or equivalent, with support for multiple ports and custom configuration files.

- Stress-tested for resilience and compared behavior against NGINX for accuracy.

Inception — System Administration with Docker

- Built a secure multi-service setup with Docker and Docker Compose in a virtual machine.
- Deployed NGINX (TLSv1.2/1.3), WordPress (PHP-FPM), and MariaDB in isolated containers with volumes.
- Applied best practices in Dockerfile creation, secret management, and service isolation.
- Enabled resilience via auto-restart and a custom Docker network.
- Bonus: Integrated Redis, FTP, Adminer, and a static site.

Additional Information

Portfolio: portfolio-three-xi-q9heawtqsd.vercel.app | More projects on GitHub: github.com/klahcen