OUSAMA BEAJ

Fullstack Engineer — TypeScript · Next.js · React · Node.js · Headless CMS

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Fullstack engineer building end-to-end products with TypeScript, React, and Next.js. Built and launched sites used by real customers at a startup, working across frontend, backend, and APIs. Studied at 1337 (the 42 Network), with strong systems and problem-solving foundations. Looking for a role where I can ship real products and grow as an engineer.

PROFESSIONAL EXPERIENCE

Fullstack Engineer Nov 2023 – Mar 2025

FutureCorp (Digital Studio) — Paris, Remote

Progression: Intern → Developer (May 2024)

- Built and maintained production websites for real clients using Next.js and headless CMS (Sanity, Contentful, Strapi).
- Delivered luxury e-commerce like platforms and creative portfolios including Fleming Watch and Beige Pill.
- Designed and integrated third-party APIs and configured CMS schemas for editorial teams, cutting content-processing time.
- Implemented responsive UI with Tailwind CSS and optimized Core Web Vitals / Lighthouse scores.
- Owned ongoing maintenance and bug-fixing across the studio's client portfolio.

SELECTED PROJECTS

ft_transcendence — Real-time Web Application Next.js · NestJS · PostgreSQL · WebSockets · Docker

- Fullstack app with live chat, real-time notifications, and browser-based multiplayer Pong.
- OAuth 2.0 authentication, JWT sessions, WebSocket layer; containerized with Docker Compose behind an Nginx reverse proxy.

Hypertube — Video Streaming Platform Node.js · PostgreSQL · MVC

- Streaming platform integrating BitTorrent and movie-metadata APIs; custom MVC backend, user auth, and schema design.

WebServ — HTTP/1.1 Server C++ · TCP Sockets

- RFC-compliant HTTP server from scratch: request parsing, CGI, static file serving, non-blocking I/O.

Inception-of-Things — Kubernetes / CI-CD K3s · Vagrant · ArgoCD

- Deployed and managed a K3s cluster with an automated GitOps pipeline via ArgoCD.

KFS-1 & KFS-2 — Kernel Development x86 Assembly · C

- Built a linux kernel from scratch: GDT, IDT, memory segmentation, interrupt handling.

SKILLS

Frontend: React, Next.js, TypeScript, Tailwind CSS, HTML5/CSS3

CMS & Integration: Sanity, Contentful, Strapi, REST API integration

Backend: Node.js, NestJS, WebSockets, REST APIs, PostgreSQL, Redis

DevOps: Docker, Nginx, Kubernetes (K3s), GitLab CI/CD, Linux

Systems: C, C++, Unix system calls, TCP/IP, kernel programming, reverse engineering

EDUCATION

1337 Coding School — 42 Network Nov 2021 – Present

Architecte en Technologie du Numérique · Common Core: 100% complete · 42 Advanced part in progress (level ~20.43 / 21)

Peer-to-peer, project-based engineering school — no lectures; students learn by solving real engineering problems and evaluating peers. Covers systems programming (C/C++), algorithms, networks, web, DevOps, security, and kernel development.

ADDITIONAL

Languages: English (Professional) · French (Fluent) · Arabic (Native)