

Iheb Belhadj

|iheb.belhadj.dev@gmail.com | +216 95 611 874
ihebbelhadj.vercel.app | linkedin.com/in/iheb-belhaj | github.com/IhebBelhadj

Summary

Fullstack engineer with backend focus, experienced in scalable systems and production-ready Next.js applications.

Technologies

Languages: TypeScript, Python, JavaScript, Java, C#, C, SQL, PHP, Bash

Web/Fullstack: Next.js, React, Astro.js, Angular, Vue.js, Express.js, Spring, Flask, FastAPI

Databases: PostgreSQL, MySQL, MongoDB, Redis, MinIO, AWS RDS, S3

Data Eng & AI: Airflow, Airbyte, dbt, Kafka, Spark, LangChain, LangGraph, MLflow

Infrastructure: Docker, Kubernetes, Ansible, Vagrant, Jenkins, GitHub Actions, AWS

Experience

Software Engineering Intern, Talan – Tunis, TN

Feb 2025 – Aug 2025

- Integrated a multi-agent system with LangGraph for dynamic SQL and chart generation, enabling no-code data exploration.
- Built a real-time CDC pipeline refreshing charts live, enabling instant monitoring.
- Developed an end-to-end data pipeline with MinIO, Airflow, Airbyte, and dbt to manage ingestion, transformation, and ML forecasting.
- Secured the platform with Keycloak IAM using role- and group-based access control , and built an Nginx gateway to secure the private services network.
 - Technologies used: Python, FastAPI, Next.js, LangGraph, LangChain, MLflow, MinIO, Airflow, Airbyte, dbt, PostgreSQL, Keycloak, Docker, Nginx

Freelance Job, Nexits – Paris, FR

Dec 2024 - Jan 2025

- Architected a CMS solution with Payload CMS and a custom block-based page builder, enabling no-code content updates for the landing site.
- Built an instantaneous preview system using Astro.js for dynamic component rendering with minimal JS.
- Designed a dual rendering strategy (SSR for preview, SSG for production), achieving 100 performance, 95 accessibility, and 100 SEO score on Lighthouse.
 - Technologies used: Astro.js, Payload CMS, Next.js, React, TypeScript, SQLite, Turborepo

Software engineer, Nexits – Paris, FR

Aug 2023 - Sep 2024

- Implemented product state historization with audit trail, enabling edits, rollbacks, and time-travel of product data.
- Contributed to migration from legacy stack to Next.js, tRPC, and Turborepo monorepo with AWS deployment.
 - Technologies used: Next.js, React, TypeScript, Node.js, tRPC, PostgreSQL, AWS (EC2, ECR, S3, RDS), Docker, GitHub Actions, Turborepo

Freelance instructor (Weekends), ENET'Com Junior Enterprise – Sfax, TN

Oct 2023 - Nov 2023

- Conducted workshops over the weekends on web development using the MERN stack (MongoDB, Express.js, React, Node.js) teaching more than 30 junior club members.

Software Engineering Intern, Nexits – Paris, FR

June 2023 - Aug 2023

Projects

- **Portfolio:** Built on Next.js with MDX-based content management, lazy loading, and server components. Integrated a LangChain agent that answers questions about my experience. Achieved 100 performance and best practices scores on Lighthouse.
 - Technologies used: Next.js, LangChain, Vercel
- **OpsForge:** A self-contained local DevOps environment simulating production using Vagrant and Ansible. Includes a private Docker registry, Jenkins CI/CD, monitoring stack with Prometheus/Grafana, and SonarQube.
 - Technologies used: Ansible, Vagrant, Docker, Jenkins, Prometheus, Grafana, SonarQube, Bash
- **Playpex:** Torrent streamer in Node.js with backend wrapper using MSE API for seamless browser playback. Angular frontend, Electron desktop app to bundle the engine and the frontend, and Ionic mobile controller.

Education

Software engineering, ESPRIT

Sept 2022 – Sep 2025

Pre-engineering school (Math-Physics: Rank 626), IPEIM

Sept 2020 – Juin 2022