

# Nabil Ben Hmissa

## Senior Full Stack JavaScript Developer

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### Summary

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Senior Full Stack JavaScript Developer with over 5 years of experience shipping 15+ production applications for international clients, including Schneider Electric. I've built multi-platform ecosystems from scratch — spanning mobile, web, and API layers — and have hands-on experience integrating payment gateways (Stripe, SPPlus), designing role-based access systems, and setting up CI/CD pipelines for multi-team workflows. One of my proudest achievements was leading a Node.js-to-Rust migration for a rules engine that cut memory usage by 83%. I've delivered across e-commerce, SaaS, healthcare, fintech, and IoT. AWS Certified Cloud Practitioner.

### Skills

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#### Frontend

React, Next.js, Svelte, SvelteKit, React Native, Expo, Tailwind CSS, Sass, Responsive Design, WCAG Accessibility, SEO Optimization

#### Backend

Node.js, Express.js, NestJS, Fastify, REST API, GraphQL, Microservices Architecture, WebSocket, Socket.io

#### Databases

MongoDB, SQL, PostgreSQL, Redis, Elasticsearch, Database Migrations, Indexing

#### Cloud & devops

AWS (Certified), Docker, Docker Compose, Jenkins, GitLab CI/CD, GitHub Actions, Ansible, Nginx, SonarQube, Prometheus, Grafana, Linux

#### Languages

JavaScript, TypeScript, Rust, PHP, Python

#### Other

Git, JIRA, Azure DevOps, GitLab, GitHub, Builder.io, Stripe

### Experience

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**Schneider Electric**, *Front-End Developer*  
**(Svelte, SvelteKit, BuilderIO)**

05/2024 – Present  
Tunisia

- Built a reusable Svelte component library integrated with the Builder.io headless CMS, powering scalable content management across Schneider Electric's global web platform in 40+ international markets.
- Designed and developed the UI for a recommendation engine featuring a mobile-first multi-step wizard, dynamic form rendering, and scrollable design steps - improving the product discovery and conversion experience.
- Led platform-wide WCAG accessibility compliance: refactored rating modals for keyboard navigation, implemented focus trapping, fixed video autoplay behavior, and resolved screen reader compatibility issues.
- Resolved sprint tickets covering critical UI regressions, mobile scroll bugs, product navigation state management, and cross-browser rendering inconsistencies.
- Created 2 internal tools adopted by the engineering team: a Content Security Policy (CSP) audit utility and a code formatting/merging tool - both streamlining security reviews and cross-platform code integration.

- Conducted systematic code reviews and deployed production fixes, reducing regression frequency and improving release stability.

**Pixelium, Full Stack JavaScript Developer**

09/2021 – 04/2024

Tunisia

### **French Educational Network Platform**

#### **(NextJs, NodeJs, Mongodb, SPlus, Fastify)**

- Architected and delivered a full-stack management platform for a national French educational network - 2 web apps, a endpoint REST API layer, and a standalone payment microservice. Integrated Stripe and SPPlus payment gateways with membership lifecycle management.
- Automated payment audit logging, and async reminder email campaigns via a queue processing system. Designed a granular RBAC system with 5 permission levels (candidate, recruiter, reader, contributor, administrator)
- enforced at route, component, and API middleware layers. Developed the public CMS website as the main contributor, shipping application workflows, event and training management modules, CAPTCHA security, and SEO-optimized content routing.
- Automated deployments with a Jenkins multi-branch CI/CD pipeline including SonarQube quality gates, automated test execution, and containerized Docker releases.
- Built a decoupled Fastify-based payment gateway microservice, isolating transaction processing from the monolith and improving payment reliability.

### **AiZoPlan – Project Portfolio Management SaaS**

#### **(NextJs, fastify, NodeJs, Postgres ,Stripe)**

- Led full-stack development of a project portfolio management SaaS tool as the main contributor, driving end-to-end architecture for the React frontend and Node.js backend.
- Built a multi-currency budgeting studio with real-time program and project canvas views, supporting enterprise portfolio management across 10+ currencies.
- Designed KPI dashboards with OKR alignment, key result tracking, and Agile iteration management - enabling data-driven project planning for enterprise clients.
- Implemented role-based invitation workflows with email onboarding and configured GitLab CI/CD pipelines with automated database migration execution on each release.

### **Ahkili – Telehealth & Mental Wellness Platform**

#### **(NextJs, Fastify ,Mongodb ,Agora ,Redis)**

- Implemented real-time video consultation via WebRTC with a draggable floating interface, a push notification engine with scheduled and deferred delivery, and QR-code-based session access management.
- Developed the therapeutic category taxonomy, blog publishing system, admin dashboards for psychologist onboarding, image processing with cropping, and multilingual support (i18n).

### **Localira – IoT Vehicle Tracking System**

#### **(Rust ,Redis, Mongodb ,ExpressJs)**

- Contributed to migrating the vehicle tracking rules engine from Node.js to Rust, implementing zone-in/zone-out geofence detection, stateful event triggering, and multi-threaded processing - reducing memory consumption from 1.2 GB to 200 MB (83% reduction).

- Developed a Redis state machine for real-time rule evaluation, web push notification delivery, and cron-based scheduled event processing.

### Devops

- Managed Docker Compose orchestration and deployment configuration for the full IoT tracking infrastructure across multiple environments.
- Built a CLI scaffolding tool that auto-generates Fastify CRUD endpoints, Mongoose models, validation schemas, and route registration from config files — cutting API setup time by 60% across team projects.
- DevOps & CI/CD Infrastructure Designed multi-branch Jenkins CI/CD pipelines with SonarQube static analysis, Jest test automation, and Prometheus + Grafana observability dashboards for production monitoring. Configured Ansible playbooks for Docker-based automated deployments, scheduled MongoDB backups, and Keycloak identity management provisioning.

**Self-Employed, Freelance Full Stack Developer**

09/2011 – Present  
Tunisia

### Multi-App Delivery Platform

**(NextJs, ReactNative, NestJs, Socketio, Redis ,Mongodb)**

- Architected and delivered a 5-app delivery ecosystem from scratch: 3 React Native/ Expo mobile apps (customer, partner, driver), a Next.js admin backoffice, and a NestJS backend API. Implemented real-time order lifecycle tracking with interactive maps, payment processing, email verification workflows, and cross-platform push notifications. Set up production infrastructure with Docker containerization, Nginx reverse proxy, and an automated APK build pipeline for mobile distribution.

### Carthage Sea Store – E-Commerce Platform

**(NextJs, NestJs, Mongodb)**

- Built a production e-commerce platform with a Next.js SSR/SSG storefront and Node.js backend, delivering a product catalogue, category navigation, shopping cart, and automated order lifecycle management (including automatic cancellation of unpaid orders). Implemented a payment reconciliation engine with cron-based transaction matching and automated order status sync with the payment gateway.
- Achieved first-page search rankings through SEO optimization: robots.txt setup, Google Search Console indexing, Open Graph metadata, image caching strategies, and static page generation.

### MineClap – Social Network Platform

**(NextJs, NestJs Microservices, Mongodb ,Stripe)**

- Architected a NestJS microservices backend handling event management, publication feeds, donation workflows, IBAN withdrawal processing, and MongoDB aggregation pipelines optimized with compound indexes. Implemented automated content moderation with cron-based access restriction policies and role escalation timers. Also developed the web app (Next.js).

**CM2E, Full Stack Developer**

01/2020 – 06/2020  
Tunisia

**(React, Expressjs, Mysql)**

- Produced deviation charts to support equipment compliance audits.
- Deployed the system on local servers for company-wide use

## Education

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**Engineering Degree – Computer Science, École Polytechnique de Sousse**

2020 – 2023

**Bachelor's Degree - Information Systems Development, ISET Sousse**

2017 – 2020

## Languages

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### French

Proficient

### English

Fluent

### German

Basic

### Arabic

Native / Bilingual

## Certificates

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- AWS Certified Cloud Practitioner