

Nour El Houda Kachroud

Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer experienced in building SaaS and business applications with Java/Spring Boot and modern TypeScript frontends including Angular, React, and Next.js. Delivers REST-connected product features across business logic, relational data, reusable UI architecture, performance-focused modernization, and multilingual RTL/LTR interfaces.

TECHNICAL SKILLS

Frontend: Angular 19/16, React, Next.js, Vue.js, Nuxt.js, TypeScript, Tailwind CSS, Bootstrap

Backend: Java 21/17, Spring Boot 3, Spring Security, JWT, Spring AOP, Node.js, REST APIs, JPA/Hibernate

Data & schema: PostgreSQL, MariaDB, MySQL, MongoDB, Liquibase

Architecture: Modular architecture, RBAC, Role-hierarchy authorization, i18n, RTL/LTR, Locale-aware email, Performance optimization

Delivery & methods: Docker, Docker Compose, Linux, Git, GitLab, Bitbucket, Jira, Maven, Agile Scrum, Kanban

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer · DigCoder

Apr 2023 - Present

Moknine, Tunisia

Product engineering across SaaS platforms, modular business software, diagnostics, wealth management, public web applications, and delivery infrastructure.

- Design and deliver frontend and backend features, translating business requirements into maintainable product modules.
- Build and integrate REST APIs connecting Java/Spring Boot services with Angular, React/Next.js, Vue/Nuxt interfaces, and relational databases.
- Create reusable component patterns across Next.js and Angular products to strengthen UI consistency and limit duplicated implementation.
- Modernize and maintain existing products through functional and corrective changes, responsive redesign, API integration, and performance-focused refactoring.
- Implement security-sensitive DigCore backend flows, including Spring AOP role-hierarchy safeguards and locale-aware Thymeleaf verification emails.
- Deploy and maintain selected self-hosted team services with Docker, Linux VPS infrastructure, GitLab, Nextcloud, and Let's Encrypt certificates.

Java 21/17 · Spring Boot 3 · Angular · React · Next.js · TypeScript · REST APIs · Docker

Teaching Assistant / Practical Instructor · ISIMM

Oct 2022 - Mar 2023

Monastir, Tunisia

Delivered practical instruction in Python, Java, C, and BPMN, plus introductory operating-systems and database concepts, strengthening technical communication and knowledge transfer.

Python · Java · C · BPMN · Operating Systems · Databases

SELECTED PROJECTS

DigCore - Professional project

Modular ERP foundation with multilingual UI and layered authorization.

- Built reusable Next.js/React/TypeScript modules with multilingual RTL/LTR UI, role-aware actions, and Spring Boot REST integration.
- Implemented Spring AOP role-hierarchy safeguards for protected user, country, and settings operations, plus locale-aware Thymeleaf verification emails with English/French bundles and an Arabic subject override.

Next.js/React · TypeScript · Java 21 · Spring Boot 3 · Spring Security · JWT · Spring AOP · REST APIs · JPA/Hibernate · Liquibase

MyDiags - Professional project

Diagnostics operations product supporting air-sampling workflows for the French market.

- Built and evolved Angular workflows integrated with Spring Boot REST services, MariaDB persistence, and Liquibase-managed schema changes.
- Contributed a multi-laboratory web-service gateway for analysis orders and results, and implemented report-version comparison with difference highlighting.

Angular 19 · TypeScript · Java · Spring Boot · MariaDB · Liquibase · REST APIs

[View project](#)

EASY - Professional project

French wealth-management SaaS covering client, asset, budget, tax, and social-protection domains.

- Developed Angular modules and integrated Java/Spring Boot REST services with MySQL persistence and Liquibase-managed database evolution across complex financial workflows.

Angular 16 · TypeScript · Java · Spring Boot · MySQL · Liquibase · Maven

[View project](#)

Digtop - Professional project

SaaS for alternative-medicine practitioners spanning appointments, CRM, teleconsultation, and online payment.

- Built and modernized Angular/Vue workflows backed by Node.js and PostgreSQL, integrating REST services and Stripe payment flows across practitioner and client experiences.

Angular 8 · Vue 3 · Node.js · PostgreSQL · Stripe · REST APIs

[View project](#)

DigCoder - Professional web delivery

Public company website migrated from Vue 3 to Nuxt 3.

- Built responsive, reusable layouts with an SEO-oriented page structure.

Nuxt 3 · Vue 3 · Bootstrap · Responsive UI · SEO

Duranergy & Constructys Ingénierie - Professional web delivery

Responsive public websites for energy and engineering organizations.

- Built reusable Vue/Nuxt layouts and responsive content sections across both sites.

Nuxt 3 · Vue 3 · Bootstrap · Responsive UI

[View project](#)

Folio CV Studio - Personal project

Live, privacy-first bilingual CV builder with local storage and selectable-text PDF export.

- Designed a typed Next.js/React domain that separates candidate data from presentation, with IndexedDB-backed CVs, revision history, templates, and live A4 previews.
- Implemented in-browser PDF/DOCX import with review and merge workflows, plus vector PDF export with selectable text and clickable links.

Next.js 16 · React 19 · TypeScript · IndexedDB · PDF.js · Mammoth · React PDF

EDUCATION

Master's in Software Engineering · Research-oriented program

2021

ISIMM · Monastir, Tunisia

Bachelor's in Computer Science

2018

ISIMM · Monastir, Tunisia

LANGUAGES

Arabic - Native · French - Professional proficiency · English - Professional proficiency