

# NOUR EL HOUDA KACHROUD

## FULL-STACK SOFTWARE ENGINEER

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### PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 3+ years of software product development and 4 years of combined professional experience. Builds business-critical SaaS features across Java/Spring Boot backends and Angular, React/Next.js and Nuxt.js frontends. Experienced in REST API integration, SQL persistence, reusable component architecture, performance-focused modernization and multilingual Arabic/French/English interfaces with RTL/LTR support.

### CORE TECHNICAL EXPERTISE

|                   |                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Frontend          | Angular 19/16, React, Next.js, Vue.js, Nuxt.js, TypeScript, JavaScript, HTML5, CSS3, SCSS, Tailwind CSS, Bootstrap                             |
| Backend           | Java 17, Spring Boot 3, Spring Security, JWT, Node.js, Express, REST APIs, JPA/Hibernate, Liquibase, Maven, Gradle                             |
| Data              | PostgreSQL, MariaDB, MySQL, MongoDB                                                                                                            |
| Architecture      | Modular architecture, RBAC, reusable components, API integration, i18n, RTL/LTR, responsive UI, performance optimization, legacy modernization |
| DevOps & delivery | Docker, Docker Compose, VPS, Linux, Git, GitLab, Bitbucket, Jira, Nextcloud, Let's Encrypt, Agile Scrum, Kanban                                |

### PROFESSIONAL EXPERIENCE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |
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| DigCoder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | April 2023 - Present |
| Full-Stack Software Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Moknine, Tunisia     |
| <ul style="list-style-type: none"><li>Design, develop, test and integrate frontend and backend features across SaaS and enterprise web applications, translating business requirements into maintainable product modules.</li><li>Build and consume REST APIs to connect Java/Spring Boot services with Angular, React/Next.js, Vue.js and Nuxt.js interfaces and relational persistence layers.</li><li>Develop shared reusable component patterns across Next.js and Angular applications, improving UI consistency and limiting duplicated implementation.</li><li>Modernize and maintain existing products through corrective and evolutionary changes, responsive redesigns, API integration and performance-focused refactoring.</li><li>Collaborate with Product Owners, engineers and designers in Scrum workflows, resolving technical issues spanning business rules, data representation and interface delivery.</li><li>Deploy and maintain selected self-hosted team services, including GitLab and Nextcloud, using Docker, VPS infrastructure and Let's Encrypt certificates.</li></ul> |                      |

### SELECTED PRODUCTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|
| DigCore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Modular ERP/core platform                                      | Next.js, React, TypeScript, Java 17, Spring Boot 3, REST APIs, i18n |
| <ul style="list-style-type: none"><li>Developed full-stack modules with a reusable, domain-oriented frontend architecture and Spring Boot REST services.</li><li>Implemented multilingual Arabic, French and English interfaces with i18n and RTL/LTR adaptability, alongside authentication workflows and role-aware access patterns.</li><li>Applied React performance techniques and component boundaries to reduce avoidable rendering and keep the codebase maintainable.</li></ul> |                                                                |                                                                     |
| MyDiags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Air-sampling and diagnostics management application for France | Angular 19, Java, Spring Boot, MariaDB, Liquibase, REST APIs        |
| <ul style="list-style-type: none"><li>Refactored and extended business workflows for air-sampling management, integrating Angular modules with Spring Boot APIs and database migrations.</li><li>Delivered corrective and evolutionary improvements across UI, backend business logic and persistence.</li></ul>                                                                                                                                                                         |                                                                |                                                                     |

## ADDITIONAL PRODUCT EXPERIENCE

**EASY** *French wealth and asset-management SaaS*

*Angular 16, Java, Spring Boot, MySQL, Liquibase, REST APIs, Maven*

- Built frontend and backend modules covering civil status, assets, budgets, taxation and social protection, including complex data-entry and calculation flows.
- Integrated Angular interfaces with Spring Boot REST services and MySQL persistence while maintaining consistent Figma-aligned UI patterns.

**Digtop** *SaaS for alternative-medicine practitioners*

*Angular 8, Vue 3, Node.js, PostgreSQL, REST APIs, Stripe*

- Implemented responsive appointment, patient CRM, practitioner-management and search workflows across administrator and patient experiences.
- Integrated REST services and contributed to teleconsultation and online-payment flows, while maintaining and modernizing the legacy application.

**DigCoder, Duranergy & Constructys Ingénierie** *Responsive corporate websites*

*Nuxt.js, Vue.js, JavaScript, Bootstrap, HTML5, CSS3, SEO*

- Rebuilt and delivered responsive Nuxt.js websites, including the DigCoder migration from Vue 3 to Nuxt 3, reusable layouts and SEO-oriented implementation.

## TEACHING EXPERIENCE

**ISIMM - Institut Supérieur d'Informatique et de Mathématiques de Monastir**

October 2022 - March 2023

**Teaching Assistant / Practical Instructor**

Monastir, Tunisia

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

## EDUCATION

**Master en Génie Logiciel (orienté recherche)**

2021

ISIMM, Monastir

**Licence Fondamentale en Informatique**

2018

ISIMM, Monastir

## ACADEMIC ENGINEERING PROJECTS

**Master's research project - Intelligent service-composition engine** 2021

Developed a Python engine that composed SOAP/WSDL services into business processes, using a learning cycle to generate or infer compositions. *Python, SOAP, WSDL, service composition*

**Final-year project - Android commercial-establishment management application** 2018

Built employee, inventory, order and cash-management modules backed by Node.js and MongoDB services. *Java, Android, Node.js, MongoDB*

## LANGUAGES

Arabic - Native | French - Professional proficiency | English - Professional proficiency

**Additional technologies:** Python, C, Android, SOAP, WSDL, BPMN, SEO