

MOHAMED ALI BOUDOKHANE

Junior Software Engineer / Software Developer

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PROFESSIONAL SUMMARY

Junior software engineer with a Licence in Software Engineering and three development internships in web and mobile. Experienced across the TypeScript and Java ecosystems — NestJS and Next.js, Angular and Spring Boot, React Native and Firebase — with relational and NoSQL databases, REST APIs and JWT-based authentication.

TECHNICAL SKILLS

Main stack: TypeScript, NestJS, Next.js / React, Java, Spring Boot, Angular, PostgreSQL
Programming languages: TypeScript, JavaScript, Java, PHP, SQL, HTML, CSS
Frontend: Next.js, React, Angular, React Native / Expo, Tailwind CSS, Bootstrap, SCSS
Backend: NestJS, Spring Boot, Spring Web, Spring Data JPA, Hibernate, PHP, REST, Swagger
Databases & ORM: PostgreSQL, MySQL, Cloud Firestore, Redis, Drizzle ORM, Prisma
Security & testing: Spring Security, JWT, bcrypt, JUnit, Spring Boot Test
Tools & platforms: Git, Supabase, Firebase, Vercel, Angular CLI, Expo, Maven, npm, Microsoft Excel

EXPERIENCE

Software Development Intern — G.E.I.B Digital Connect

Sousse, Tunisia | January 2026 – June 2026 (5 months)
Full-stack e-commerce marketplace developed within the company's development department.

- Developed the backend as a REST API with NestJS and TypeScript, using Drizzle ORM for the data access layer over a Supabase PostgreSQL database, with Redis in the backend stack.
- Built the marketplace front end with React and Next.js, working across the full stack from database schema and API endpoints to the user interface.

Technologies: TypeScript, NestJS, Drizzle ORM, Supabase, PostgreSQL, Redis, React, Next.js

Final-Year Project Intern (PFE) — Terraform Group

Sousse, Tunisia | February 2025 – May 2025 (4 months)
Profiti — cross-platform marketplace reducing food waste by connecting shops offering unsold or end-of-day products with users buying them at reduced prices.

- Built a TypeScript Expo application for iOS, Android and web with Expo Router and role-specific navigation for buyers, sellers and couriers.
- Implemented a geo-based marketplace (GPS location, Haversine filtering within 10 km, search, listing expiry) and checkout with pickup/delivery options, distance-based fees, stock management and Firestore cart synchronisation.
- Implemented courier matching within 3 km with accept/refuse flows, multi-stop routing and real-time Firestore notifications; secured accounts with Firebase Authentication, email verification, password reset and role-based routing.

Technologies: TypeScript, React Native, Expo, Firebase Authentication, Cloud Firestore

Web Development Intern — INFOPLUS

Bizerte, Tunisia | July 2024 – August 2024 (1 month)
Full-stack stock management platform covering articles, categories, clients, suppliers, orders and stock movements.

- Implemented JWT authentication with Spring Security and BCrypt, together with an Angular HTTP interceptor and route guards.
- Designed multi-tenant data isolation using the company ID carried in the JWT and Hibernate SQL filtering; modelled stock entries and exits from client and supplier orders with Spring Data JPA and MySQL.
- Generated the Angular API client from Swagger and wrote JUnit tests for category persistence.

Technologies: Angular, TypeScript, Java, Spring Boot, Spring Data JPA, Hibernate, Spring Security, JWT, MySQL, REST, Swagger, JUnit

PROJECTS

Le Saphir Bleu — Restaurant Website with Online Booking and Staff CMS (personal project)

- Built a Next.js 15 App Router application with public and admin pages and JSON REST API route handlers; modelled PostgreSQL data with Prisma for menu, locations, reservations, messages, media and settings.
- Implemented JWT staff authentication with bcrypt, httpOnly cookies, role-based access control and token revocation; validated payloads with Zod and enforced reservation rules (time slots, guest limits, capacity); integrated Cloudinary and Resend, deployed on Vercel.

Technologies: TypeScript, Next.js 15, React 19, Tailwind CSS 4, PostgreSQL, Prisma, Supabase, JWT, Vercel

EPI Network — PHP/MySQL Social Network (personal project)

- Built a server-rendered PHP 8 application with registration, login/logout, session guards, Post/Redirect/Get, a post feed with owner-only edit and delete, image attachments and post reporting.
- Secured authentication with password_hash / password_verify, prepared statements and output escaping; implemented image uploads validated by MIME type and file size with randomised filenames.

Technologies: PHP 8, MySQL, JavaScript, Bootstrap, HTML, CSS, Git

EDUCATION

Licence in Software Engineering — EPI Digital School, Sousse, Tunisia | 2022 – 2025

CERTIFICATIONS

ÖSD Zertifikat A2 (German) — International Institute for Studies and Cooperation (IISC), Kairouan, Tunisia — [Year: TO ADD]
Microsoft Office Specialist — Excel 2019 Associate — Microsoft / Certiport — January 2024

LANGUAGES

Arabic: Native | **French:** Professional | **English:** Professional | **German:** A2 (ÖSD Zertifikat A2)