

# AHMED BEL HAJ BOUBAKER

Full Stack Software Engineer

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## Professional Summary

Full Stack Software Engineer with 2 years of experience building end-to-end web and mobile applications, including business platforms, SaaS products, and AI-powered automation solutions. Experienced in Java/Spring Boot, Angular, React/Next.js, and React Native. Focused on building reliable, maintainable software that solves real user problems and supports business objectives. Seeking an opportunity to contribute to a product-focused engineering team.

## Professional Experience

### Full Stack Software Engineer

*MVPNest*

Jan. 2025 – Present

Tunis, Tunisia

- Designed and developed a scheduling system for building automation, supporting annual calendars, weekly templates, daily profiles, and regulation zones.
- Developed a workforce management platform for the hospitality industry, replacing phone and email coordination with a structured request-tracking system that follows each request through confirmed booking, with real-time status updates.
- Built reusable Angular components, REST APIs with JWT authentication, and administrative dashboards.

**Technologies:** Java, Spring Boot, Angular, TypeScript, Django REST, MySQL, JWT

### Full Stack Software Engineer Intern

*Bin Mes'har & Co. Advocates & Legal Consultants*

Nov. 2024 – May 2025

Dubai, United Arab Emirates

- Developed an internal law firm management platform covering case management, document handling, scheduling, and client communication.
- Integrated an AI-powered case analysis module to structure legal consultations and estimate potential case outcomes.
- Built a bilingual English-Arabic interface with comprehensive right-to-left (RTL) support.
- Implemented dashboards, authentication, and internal messaging using Supabase.

**Technologies:** Next.js, React, TypeScript, Prisma, Supabase, Tailwind CSS, AI APIs

## Projects

### Ulysse Mobile App & WhatsApp AI Assistant

Freelance Project, 2026

- Developed a WhatsApp AI assistant powered by a self-hosted LLM (Qwen via Ollama) to understand natural language travel requests, such as “Tunis to Milan on November 22 for two passengers,” and handle follow-up questions. Validation rules ensure data accuracy, while prices are retrieved exclusively from the API.
- Built a mobile application featuring natural language flight search, best-offer selection, and a “good price” indicator calculated using current fares.
- Implemented n8n automations for booking confirmations and WhatsApp reminders 24 hours before departure, alongside a travel dashboard with countdowns, PDF invoices, and a loyalty program.

**Technologies:** React Native, Expo, JavaScript, Qwen, Ollama, n8n, WhatsApp Cloud API, REST APIs

### AI-Powered Real Estate Sales Agent

Developed an LLM-based WhatsApp assistant that responds to real estate inquiries around the clock, qualifies leads based on budget, preferred location, and property type, recommends suitable properties, and schedules viewings or escalates qualified prospects to human sales agents.

## Technical Skills

**Programming Languages:** Java, TypeScript, JavaScript, Python, PHP, SQL, HTML/CSS

**Frontend & Mobile:** Angular, React, Next.js, React Native (Expo), Redux, Tailwind CSS, Internationalization (i18n), RTL

**Backend:** Spring Boot, Node.js, Express, Django REST, Laravel, REST APIs, JWT Authentication

**Databases & Data Access:** PostgreSQL, MySQL, MongoDB, Prisma, Supabase

**Cloud & DevOps:** Docker, AWS, Git, CI/CD, Vercel

**AI & Automation:** LLM Integration, Conversational AI Agents, WhatsApp Automation, n8n

**Languages:** Arabic (Native), French (Fluent), English (Fluent)

## Education

### Master's Degree in Computer Applications – Software Engineering

*ESPRIT – Private Higher School of Engineering and Technology*

Sep. 2020 – Oct. 2025

Tunis, Tunisia