Hedi Amir Hmida

Backend / Full-Stack Software Engineer

hmida01@ads.uni-passau.de | Hedi Amir Hmida | Hedi Amir Hmida | Portfolio

Summary

M.Sc. Computer Science student at the university of Passau with production experience building backend and full-stack features, including AI integration, multilingual pipelines, and medical-data privacy handling. Seeking a working student or part-time role in backend or full-stack development.

Education

University of Passau, Germany **2024 – Present**

Master's Degree in Computer Science (Double Degree Program)

National School of Computer Science, Tunisia **2022 – 2024**

Engineering Studies in Computer Science (Double Degree Pathway)

Professional Experience

Oncare GmbH **Mar 2026 – Present**

Backend / Full-Stack Developer (Working Student) *Munich, Germany*

- Integrated a **CE-marked AI solution** into the healthcare professional (HCP) platform by aggregating and filtering patient data from multiple internal microservices, designing prompts for treatment recommendations, and implementing AI-based summarization, multilingual translation, error handling, and fallbacks to address context-window and 12-language requirements.
- Developed the feature across the stack, implementing the **NestJS/Express** backend broker and **React-based** HCP interface, with unit and end-to-end testing to ensure reliable AI integration and user-facing functionality.
- Contributed to an **encrypted medical-data export** for HCP offboarding and architectural updates to the **PADnext** billing system.

Mammut Web Solutions **Jul 2023 – Aug 2023, Jul 2024 – Aug 2024**

Software Engineer Intern *Tunisia*

- Built full-stack features across two internships spanning a pharmaceutical admin dashboard (**React, Node.js**) and a food-surplus marketplace mobile app (**Flutter, Express.js, MySQL**), including real-time inventory updates and a messaging system.
- Reduced manual tracking by **70%** and cut data entry time by **50%** via smart notifications, backend validations, and reusable UI components; reached **90% unit test coverage** and validated **20+ APIs** with **Postman**.

Projects

Enterprise Task Management API **Mar 2025**

Java, Spring Boot, PostgreSQL, Docker *GitHub*

- Developed a secure **Spring Boot** backend with **JWT authentication** and role-based access control, enabling task management with auditing, status transitions, and **PostgreSQL** persistence.

SmartStockManager **Jul 2025**

Next.js, Prisma, Supabase, Vercel *Live Demo*

- Developed a full-stack web app enabling stock management, sales tracking, and earnings analytics.
- Built dynamic dashboards with category-wise insights, stock-out prediction, and automated CI/CD deployments.
- Ensured reliability with end-to-end testing of key workflows using **Playwright**.

Skills

Programming Languages: Python, C/C++, Java, JavaScript, TypeScript, PHP, Dart

Frameworks & Libraries: React, Next.js, Flutter, Node.js, Spring Boot, Express.js

Databases & Tools: MySQL, MongoDB, Prisma ORM, Git, Docker, GitHub Actions, Bitbucket, Vercel

Testing & Practices: Playwright, Selenium, JUnit, Postman, REST APIs, CI/CD, Agile, Linux