

Hedi Amir Hmida

M.Sc. Computer Science Student

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Summary

Master's student in Computer Science at the University of Passau with hands-on industry experience in full-stack web and mobile development. Delivered real-world projects during two internships and built apps using React, Flutter, Node.js, and MySQL. Actively seeking a working student role in backend, QA, or full-stack development to contribute to agile teams and grow in a modern software engineering environment.

Professional Experience

Mammut Web Solutions

July 2024 – August 2024

Software Engineer Intern

Tunisia

- Built a mobile-first food surplus donation and resale platform, enabling restaurants and hotels to list leftover meals for free or at reduced prices.
- Developed full-stack features using **Flutter**, **Express.js**, and **MySQL**, including real-time inventory updates and a user messaging system for order coordination.
- Reduced manual tracking and phone coordination by **70%** by integrating smart notifications and backend validations.
- Designed and tested **20+** API routes with **Postman** to ensure secure, stable, and user-friendly interactions.

Mammut Web Solutions

July 2023 – August 2023

Software Development Intern

Tunisia

- Led frontend development of a pharmaceutical admin dashboard using **React.js** and **Node.js**, cutting manual data entry time by 50% and improving usability for non-technical staff.
- Designed reusable UI components with secure role-based access control, improving maintainability across the codebase.
- Wrote unit tests with **JUnit**, achieving **90%** coverage and enabling faster, bug-free deployments.

Projects

Smart Stock Manager

A responsive inventory and earnings dashboard for small businesses.

- Developed a full-stack web app that lets users manage their stock, track sales, and view earnings across multiple categories.
- Built dynamic dashboards with product-level analytics and category-wise earnings charts.
- Implemented a stock-out prediction feature based on past sales data.
- Connected to a **Supabase (PostgreSQL)** database and set up a CI/CD pipeline using **GitHub Actions + Vercel** for automated deployments.
- Tested key workflows and APIs with **Playwright** to ensure end-to-end reliability and data consistency.
- **Technologies used:** Next.js 15, Tailwind CSS, TypeScript, Prisma, Supabase, Vercel, Playwright.

RoboServe

A Flutter-based delivery and order management app integrated with a Bluetooth-enabled robot.

- Designed a mobile interface for restaurant staff to update and track real-time order status using Flutter.
- Engineered a RESTful backend in Express.js to coordinate orders between the app and a Bluetooth robot.
- Deployed the backend on a lightweight Node.js server and managed MySQL integration for persistent storage.
- Simulated robotic delivery workflows with mock payloads to optimize task dispatching and reduce latency.
- **Technologies used:** Flutter, Express.js, Node.js, MySQL.

Skills

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

Frontend: React.js, Next.js, Tailwind CSS, Flutter

Backend: Node.js, Express.js, PHP

Databases: MySQL, MongoDB, Prisma ORM

Testing & QA: Playwright, Postman, JUnit, Selenium

DevOps & Tools: Git, GitHub, Docker (basic), GitHub Actions, AWS (EC2, S3, CodePipeline), Vercel

Others: REST APIs, CI/CD, Responsive Design, Agile Development

Education

Faculty of Computer Science and Mathematics at the University of Passau <i>Master’s Degree in Computer Science (Current Student)</i>	2024 - Present
National School of Computer Science (Tunisia) <i>Pursuing Computer Science Engineering Degree</i>	2022 - 2024
Preparatory Institute for Engineering Studies of Monastir (IPEIM) <i>Preparatory Degree for Engineering Studies</i>	2020 – 2022

Languages

English: Fluent

French: Fluent

Arabic: Native

German: A2 class