

## Education

**Philipps-Universität Marburg**, Germany

MSc in Computer Science

Sep 2024 - Present

**ESPRIT**, Tunisia

Software Engineering

Sep 2022 - Present

**ISSAT**, Tunisia

Integrated Engineering Preparatory Cycle (Mathematics, Physics, and Computer Science)

Sep 2020 - Jun 2022

## Internships

**Software Engineer Intern – NextStep IT**

Jun 2024 - Sep 2024

- Developed a microservices-based ticketing system with Spring Boot and React
- Optimized RESTful APIs, reducing response time by 35
- Implemented real-time notifications using WebSocket and Server-Sent Events
- Built CI/CD pipelines with Jenkins and Docker for automated backend deployments
- Integrated Active Directory authentication with SSO and role-based access control
- Optimized backend for 100+ concurrent requests using caching and load balancing

**Software Engineer Intern – Aetech-Solutions**

Jun 2023 - Aug 2023

- Developed a scalable inventory management system using Spring Boot and PostgreSQL
- Optimized database queries, reducing data retrieval time by 40
- Designed and secured RESTful APIs with JWT authentication and role-based access control
- Implemented caching mechanisms using Redis to enhance system performance
- Wrote automated backend tests using JUnit and Mockito, ensuring high code reliability

## Projects

**VitaNova (Angular, Spring Boot, MySQL)**

2024

- Developed an AI-driven e-Commerce platform with microservices using Spring Boot
- Designed and optimized REST APIs for seamless backend communication
- Implemented real-time inventory updates using WebSocket
- Integrated authentication and authorization using JWT and OAuth2

**Secure Digital Notebook (Django, Angular, AES Encryption)**

2024

- Developed a secure web app for storing and encrypting personal notes
- Implemented AES-256 encryption for enhanced data security
- Designed a user-friendly UI with Angular and Material-UI
- Built REST APIs with Django and optimized database queries for performance

**Chat Application (Node.js, MongoDB, Socket.io)**

2024

- Developed a real-time chat app with WebSocket-based messaging
- Implemented JWT authentication and user authorization
- Integrated Google Natural Language API for sentiment analysis
- Deployed on Heroku with a scalable backend architecture

## Skills

**Backend:** Spring Boot, Node.js, Express.js, Django, Symfony, REST APIs, GraphQL

**Languages:** TypeScript, JavaScript, Java, Python

**Database:** PostgreSQL, MongoDB, MySQL, Firebase, Redis

**DevOps:** Docker, Jenkins, Git, AWS, Kubernetes

**Testing:** Jest, JUnit, Cypress, Mockito

**Frontend:** Angular, React, HTML5, CSS3, Material-UI, Tailwind

## Languages

**English:** Fluent   **French:** Moderate   **Arabic:** Native   **German:** Beginner

## Interests

**Gaming:** Enjoy competitive gaming and strategic challenges

**Sports:** Active in football and running, emphasizing physical fitness

**Literature:** Passionate about reading fiction and non-fiction, exploring diverse genres

## Social Experience

**Red Crescent:** Coordinated disaster relief efforts, aiding 200+ families