AMINE IBENHAMADA

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Education

Philipps-Universität Marburg, Germany
Sep 2024 - Present
MSc in Computer Science
ESPRIT, Tunisia
Sep 2022 - Present
Software Engineering
ISSAT, Tunisia
Sep 2020 - Jun 2022
Integrated Engineering Preparatory Cycle (Mathematics, Physics and Computer Science)

Internships

Backend Developer Intern – NextStep IT
Jun 2024 - Sep 2024
- Developed a microservices-based ticketing system with a Spring Boot backend and React frontend
- Designed and 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

Backend 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 architecture
- 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 application 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, Express, MongoDB, Socket.io)
2024
- Developed a real-time chat application 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 (Basic Knowledge): Angular, React, HTML5, CSS3, Material-UI, Tailwind

Interests

Software Architecture: Enthusiastic about designing scalable and secure backend systems
Open Source Development: Contributing to backend-focused projects
Gaming: Enjoy competitive gaming and strategic challenges
Sports: Active in football and running, emphasizing physical fitness and teamwork

Social Experience

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