

AMINE IBENHAMADA

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Education

Philipps-Universität Marburg , Germany Exchange Student, MSc in Computer Science	Sep 2024 – Present
ESPRIT , Tunisia Master's in Computer Science	Sep 2022 – Present
ISSAT , Tunisia Integrated Engineering Preparatory Cycle (Mathematics, Physics, Computer Science)	Sep 2020 – Jun 2022

Internships

Software Engineer Intern – Bharcom / Agricultural Union	Jan 2025 – Present
• Contributing to the development of a digital platform for agricultural services and farmer management	
• Developing backend services using Spring Boot and RESTful APIs	
• Implementing secure authentication and role-based access control (RBAC)	
• Integrating real-time notifications and data updates using WebSocket communication	
• Managing scalable data storage with MongoDB and optimizing query performance	
• Assisting in system monitoring and performance analysis in production environments	
Software Engineer Intern – NextStep IT	Jun 2024 – Sep 2024
• Developed a microservices-based ticketing system using Spring Boot and React	
• Optimized RESTful APIs, reducing average response time by 35%	
• Implemented real-time notifications using WebSocket and Server-Sent Events (SSE)	
• Built CI/CD pipelines with Jenkins and Docker for automated deployments	
• Integrated Active Directory authentication with SSO and role-based authorization	
• Improved backend scalability to handle 100+ concurrent users 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 SQL queries, reducing data retrieval time by 40%	
• Designed and secured RESTful APIs with JWT-based authentication	
• Implemented Redis caching to improve application performance	
• Wrote automated backend tests using JUnit and Mockito	

Projects

YEFFA – Scalable E-Learning Platform (Angular, Spring Boot, MongoDB)	2025 – Present
• Designed and developed a modular full-stack e-learning platform using Angular and Spring Boot	
• Implemented secure authentication with JWT, refresh tokens, Google OAuth2, and role-based access control	
• Built course management features including enrollment, progress tracking, and certificate generation	
• Developed real-time features such as notifications, social interactions, and live updates using STOMP WebSockets	
• Created an admin dashboard with guarded routes for managing users, courses, and content	
• Implemented CI/CD pipelines with Docker, Jenkins, SonarQube quality gates, and monitored system performance using Prometheus and Grafana	
VitaNova (Angular, Spring Boot, MySQL)	2024
• Developed an AI-driven e-commerce platform based on a microservices architecture	
• Designed and optimized REST APIs for backend communication	
• Implemented real-time inventory synchronization using WebSocket	
• Integrated authentication and authorization using JWT and OAuth2	
Chat Application (Spring Boot, Angular, WebSocket)	2024
• Developed a full-stack real-time chat application using Spring Boot and Angular	
• Implemented WebSocket-based messaging and notification services	
• Secured user sessions using JWT-based authentication and authorization	
• Integrated Google Natural Language API for message sentiment analysis	
• Designed a scalable backend architecture suitable for cloud deployment	

Skills

Backend: Spring Boot, Node.js, Express.js, Django, Symfony, REST APIs, GraphQL
Programming Languages: Java, TypeScript, JavaScript, Python
Databases: PostgreSQL, MongoDB, MySQL, Redis, Firebase
DevOps & Cloud: Docker, Jenkins, Git, AWS, Kubernetes
Testing: JUnit, Mockito, Jest, Cypress
Frontend: Angular, React, HTML5, CSS3, Tailwind, Material UI

Languages

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

Interests

Sports: Football and running, maintaining physical fitness

Technology: Software architecture, backend systems, and scalable platforms

Social Experience

Red Crescent: Coordinated disaster relief initiatives supporting 200+ families