

Nour OMRI

Computer Science Student

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Tunisia-Tunis



Summary

Software engineering student passionate about full-stack development, with a focus on building efficient and scalable applications. Eager to contribute my skills to innovative projects through an internship.

Education

National School of Engineers of Carthage *Engineering degree in computer science*

Sep 2023 - Present

Higher Institute of Applied Sciences and Technology of Kasserine

Sep 2020 - Jun 2023

Bachelor's degree in Software Engineering and Information Systems

Professional Experience

Summer Internship - Project Management Web Application Development (CRNE)

First of Aug 2024 - End of Aug 2024

- Full-Stack Web Application Development: Designed and developed a project management web application using Angular for the frontend, Spring Boot for the backend, and MySQL for database management. Integrated various functionalities for project creation, task management, and project archiving enhancing performance by 50%. Implemented secure user authentication with password hashing and email verification through registration links.

Technologies: Angular, Springboot, Mysql

Final Year Project: Rust Ecosystem Study & Library Management App

Feb 2023 - June 2023

- Explored Rust's memory safety, concurrency, and error handling, with industry case studies. Built a library management app using Rocket, mastering Cargo and Rust tools. Documented findings and best practices to contribute to Rust's learning resources. Presented the project online at RustLab conference Italy Florence, promoting Rust's advantages for reliable and efficient software development.

Technologies: Rust,MySQL

Projects

Web Platform for Managing End-of-Year Academic Projects (PFA)

- End-to-End Web Solution: Developed a centralized platform for managing academic projects, including proposal submission, automated assignment, progress tracking, and presentation scheduling which made the user experience better by 100%.
- Secure & Role-Based: Implemented JWT authentication and role-specific dashboards (students, teachers, department directors) with Spring Boot backend and Angular frontend reducing request processing time by 40% and handling over 25 requests during the testing phase.

Technologies: Angular, SpringBoot, SpringSecurity, JUnit, MySQL

Mobile Application Development - Spectacle Reservation App

- Mobile Ticket Booking: Developed an Android app for browsing events, viewing details, and reserving tickets seamlessly using Java, XML, and Retrofit for API integration which made the user experience better by 100%.
- Dynamic Data Flow: Enabled real-time data fetching (event listings, reservations) via Retrofit with a Spring Boot backend and MySQL database.

Technologies: Android studio, Java, Retrofit, Spring Boot, MySQL.

Hotel Management Desktop App

- Built a desktop app for managing hotel operations, including staff, rooms, reservations, clients, restaurant services, inventory, and other hotel services.
- User-Friendly Interface: Developed with JavaFX for an intuitive dashboard, enabling efficient handling of bookings.

Technologies: Java, JavaFx, MySql

Centralized Log Management System with ELK Stack & Docker

- Built a centralized log management system using ELK stack (Elasticsearch, Logstash, Kibana) in Docker. Configured Logstash for real-time log ingestion, Elasticsearch for fast search, and Kibana for interactive dashboards. Simplified setup with Docker Compose.

Technologies: Docker, Elasticsearch, Logstash, Kibana

Skills

Languages: Java, TypeScript, Rust, SQL, JavaScript, C/C++

Databases: SQL Server, MySQL, Postgres, MongoDB

Frameworks: Angular, Spring Boot, Next.js, Rocket

Tools: Postman, Docker, Git, ELK Stack

Community Life

Melkart Junior-Entreprise member

I contributed to the frontend development of two web applications using NextJs, one for a local restaurant "The Hood" and another for a new small perfume brand, enhancing their digital presence and business operations.

Languages

Arabic: Native

English: Advanced

French: Bilingual