

Education

● Computer Engineering Degree in Software Engineering

Higher Institute of Computer Science and Mathematics

2020 – 2025

Highest honors

Al Munastir, MS, Tunisia

● Baccalaureate in Mathematical Sciences

Technical High School of Rades

2019 – 2020

Honors : Good

Radis, BA, Tunisia

Professional Experiences

● Intern – Custom HR Portal Development (Final Year Project)

Excellia Solutions

02/2025 – 10/2025

Tunis, TU, Tunisia

- Designed and developed a **full HR digitalization platform from scratch** using **Spring Boot (REST APIs), Angular, and PostgreSQL**.
- Built a **modular and scalable architecture** enabling the management of leave requests, attendance tracking, remote work planning, and internal HR–employee interactions.
- Implemented a **secure authentication & authorization system** (JWT, role-based access, validation pipeline).
- Integrated an **external FastAPI service leveraging a pre-trained MPNetBaseV2 model** to automatically assign employees to projects based on syntactic similarity and skill matching, optimizing resource allocation.
- Developed an **interactive telework scheduling calendar**, allowing employees and managers to plan remote work efficiently.
- Implemented **attendance tracking with QR code scanning** for automatic clock-in/clock-out.
- Delivered a **complete end-to-end solution** replacing manual processes with a centralized, AI-assisted, automated workflow.

● Full Stack Developer Intern

THINK TANK BUSINESS SOLUTIONS

07/2024 – 09/2024

Tunis, TU, Tunisia

- Designed and implemented a **dynamic form generation feature** in the **PTS MS system**, allowing users to create, modify, and deploy forms based on specific actions and business events.
- Developed the **back end using Spring Boot**, handling **data transactions, complex queries**, and ensuring **secure communication with the SQL database**.
- Built a **responsive front end with Angular**, featuring a **custom drag-and-drop interface for form creation**, entirely developed **without external libraries**, reusable components from scratch.
- Focused on **performance optimization**, implementing best practices for **modular architecture**, code maintainability, and efficient state management.
- Collaborated with cross-functional teams to ensure that the feature met **business requirements** and **user experience standards**, resulting in faster and more intuitive form workflows.

● Desktop Application Developer Intern

AFRICA TRANSIT MAGASIN CALE

06/2023 – 07/2023

Radis, BA, Tunisia

- Designed and developed a **desktop application for managing commercial services**, using **Java Swing** to provide a **robust and user-friendly interface**.
- Conducted detailed **user needs analysis**, translating requirements into clear **functional specifications** and technical designs.
- Worked closely with the commercial department to **test and validate usability**, ensuring the application was intuitive, efficient, and aligned with operational workflows.
- Ensured **application stability and performance**, addressing edge cases and implementing validation rules to maintain data integrity.

Skills

Programming

Java, Python, JavaScript, TypeScript

Web Development

- **Front-end** : HTML, CSS, Angular, React.js, NextJs
- **Back-end** : Spring Boot, Node.js, Django
- **Data Base** : PostgreSQL, MySQL, SQL Server

Machine Learning & AI

ML & AI model integration, FastAPI, pre-trained models (e.g., MPNetBaseV2)

DevOps & Tools

Docker, Kubernetes, GitLab, GitHub, Figma

Academic Projects

● Development of a Complete Web Application for Cyclist Management – BASHEL Web App

The Higher Institute of Computer Science and Mathematics of Monastir

2023

ISIMM

- **Back End:** Designed and developed a **REST API using Node.js**, managing **CRUD operations** and seamless communication with an **SQL database**.
- **Front End:** Built an **interactive and responsive user interface with React.js**, ensuring smooth navigation and an optimized user experience.
- **Objectives & Achievements:**
 - Strengthened understanding of **client-server architecture**, **routing**, and **asynchronous requests**.
 - Applied full-stack development best practices, including **state management**, modular code structure, and API integration.
 - Delivered a **complete, deployable web application** for managing cyclist data efficiently.

● Development of an Academic Management System – Teaching Load Management Site

The Higher Institute of Computer Science and Mathematics of Monastir

2022

ISIMM

- **Back End:** Implemented a robust system using **Spring Boot**, integrating **RESTful services**, **role-based access control**, and **data persistence with JPA/Hibernate**.
- **Front End:** Developed a **React.js interface** for teaching load submissions, featuring **dynamic forms**, **state management**, and **secure API calls**.
- **Objectives & Achievements:**
 - Enhanced skills in **MVC architecture**, **application security**, and **front-to-back communication** through REST APIs.
 - Developed **user-friendly features** that simplified the submission and validation of teaching loads.
 - Gained experience in **full-stack project design**, **database integration**, and **end-to-end system deployment**.

Certifications

AWS Academy Cloud Security Foundations

AWS Academy Graduate

AWS Academy Cloud Architecting Foundations

AWS Academy Graduate

Languages

Arabic

Native

French

(Fluent) - Professional proficiency

English

(Fluent) - Professional proficiency

Italian

Intermediate level