Abderrahmen Zarrouk

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PROFESSIONAL EXPERIENCE

Neoxam, Tunisia   Feb 2025 – Jul 2025 & Jul 2024 – Aug 2024
Full-Stack Developer & ML Intern
- Pioneered a full-stack ticket management and real-time visualization platform using Angular, Spring Boot, and Chart.js for monitoring productivity, ticket distribution, and KPIs.
- Engineered RESTful APIs with audit logging and historical ticket tracking for Jira integration.
- Created a machine learning model (Flask, scikit-learn) recommending optimal assignees, reducing manual assignment time by **60%** and improving decision accuracy.
- Automated Jira data extraction pipelines, cutting manual handling by **50%** and freeing analytics teams to focus on insights.
- Containerized services with Docker and implemented CI/CD pipelines via Jenkins, integrating SonarQube for code quality assurance.

Digital Power Consulting, Tunisia   Jun 2023 – Aug 2023
Web Developer Intern
- Crafted and fine-tuned responsive Angular interfaces for a restaurant review platform, supporting user feedback and rating features.
- Created Spring Boot APIs for secure and efficient processing of restaurant evaluations and user input.

FCIT, Tunisia   Feb 2022 – May 2022
Web Developer Intern
- Implemented a full-stack educational platform featuring **10+** adaptive tests to support diverse learning paths using the MEAN stack.
- Engineered Python web scrapers to extract exam data, decreasing manual search time by **70%**, coupled with intuitive Angular front-end components.

Deepera.AI, Tunisia   Jul 2021 – Aug 2021
Web Developer Intern
- Implemented Python scrapers to capture real-time financial data and aggregate market news, reducing manual data collection time by **70%**.
- Designed and delivered interactive Angular dashboards for visualizing market data and financial news, ensuring a user-friendly and data-driven experience.

Academic project

Cloud Infrastructure & Web App
Engineered a private OpenStack cloud and deployed a Spring Boot + Angular app containerized with Docker and Kubernetes; integrated Prometheus and Grafana for real-time monitoring and alerting, greatly enhancing system reliability and proactive resource management.

Diabety – Diabetes Support Application
Developed a multi-platform app using Symfony(web), Java(desktop), and CodeNameOne(mobile) to support diabetic patients with food tracking, risk testing, online doctor consultations, emergency alerts, and a community forum.

EDUCATION

Private Higher School of Engineering and Technology (ESPRIT), Tunisia   2022 – 2025
Engineering Degree in Computer Science - Ranked 1st in class(1st year), 2nd in class (2nd & 3rd years)
Higher Institute of Information and Communication Technologies (ISTIC),Tunisia 2019 –2022
Bachelor's degree in computer science Ranked 3rd across the university (1st year)
Mathematics Baccalaureate , Tunisia   2018 - 2019

Skills

Java | Python | JavaScript | TypeScript | Angular | Spring Boot | Flask | MEAN Stack | Docker | Kubernetes | Jenkins | OpenStack | MySQL | MongoDB | REST APIs | CI/CD | DevOps