# Meriem Saied

Software Engineer



## Personal details

Meriem Saied

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Tunis, Tunisia

## Skills

Programming Languages: Java | JavaScript | Scala | Python | C/C++ | HTML | CSS | PHP

Frameworks & Libraries: Express.js | Spring Boot | NestJS | React

Databases: SQL | Cassandra | MSSQL | MongoDB | Astra DB | Oracle

Cloud Technologies: Docker | Jenkins | Kubernetes

Version Contorl & Collaboration: Git | Bitbucket | Jira

## Languages

English ●●●●●

German ●○○○○

French ●●●●●

Arabic ●●●●●

## Hobbies

- Community Volunteering: Volunteer at International Red Cross and Red Crescent Movement - 3 years.

- Music Student: Mastered oud techniques and musical theory.

## Experiences

**Software Engineer**                                           **Nov 2024 - Present**
Knowlepsy, France
**Knowlepsy** collects real-world data through connected devices, offering continuous health insights for doctors, clinicians, and users to improve patient outcomes. **My role:**
- Developing and implementing **RESTful API**s to support various applications, ensuring seamless data flow between systems.
- Designing and managing database schemas for optimal data storage and retrieval.
- Building scalable backend services, handling user requests efficiently.
- Implementing interactive, responsive components for real-time data display.
- Ensuring system scalability and security with cloud infrastructure on **Azure** and **Docker**.
- Collaborating with frontend and mobile teams to define requirements and deliver new features.
- Version control and deployment through **Git** and **CI/CD** pipelines.

**Technologies: Node.js, Express, MSSQL, Docker, RESTful APIs, Git, Microsoft Azure**

**Software Engineer**                                           **Jun 2023 - Jun 2024**
Cognira, Tunis, Tunisia
**Cognira** specializes in providing advanced AI-driven decision support solutions for retailers, enabling smarter promotional strategies and optimized business decisions. **My role:**
- Designed and developed **RESTful API**s.
- Designed database schemas and implemented complex queries to meet the application's data needs.
- Identified and resolved performance bottlenecks in backend services.
- Collaborated closely with cross-functional teams to integrate new features.
- Created detailed technical documentation to support future maintenance and development.

**Technologies: Scala, Spring Boot, Cassandra, Docker, Kubernetes, Bitbucket, Jenkins, Jira, Confluence**

## Internships

**Software Engineer Intern**                                           **Feb 2023 - Jun 2023**
Cognira, Tunis, Tunisia
- Designed and implemented a **search algorithm** to enhance the functionality of the company's existing calculation engine, improving the efficiency and accuracy of data retrieval, ensuring compatibility and minimal disruption to ongoing operations.

**Keywords: Bound Tree, Scala, Cassandra, Docker, Jenkins, Unit Testing.**

**Software Engineer Intern**                                           **Jun 2022 - Aug 2022**
BIAT, Tunis, Tunisia
- Developed web scraping scripts and created interactive dashboards to visualize key metrics of the bank agencies.

**Technologies: Python, BeautifulSoup, Power BI**

## Projects

**Verbal Aggression Detection & Real-Time Alert System**                 **Dec 2021**
- Developed a system for verbal aggression detection, within **RIADI Laboratory**, using audio processing and machine learning and implementing real-time alert mechanism to notify patrols.

**Technologies: Python, Machine Learning, QGIS, React Native**

**School Management System Project**                                      **Jun 2021**
- Developed a School Management System, within **ENSI Junior Enterprise**, for enrollment, scheduling, grades, and academic records.

**Technologies: MERN Stack, RESTful APIs**

## Education

**Computer Science Engineering Diploma**                          **Sep 2020 - Jun 2023**
National School of Computer Science - ENSI, Tunis, Tunisia
**Subjects**: System Design, Algorithm Optimization, Software Quality&Test, Distributed Database

**Pre-Engineering studies: Mathematics-Physics**                  **Sep 2018 - May 2020**
Prepatory Institue for Engineering Studies of El Manar, Tunis, Tunisia
**Subjects:** Mathematics, Physics, Algorithms.