

# ISLEM CHAMMAKHI

## Software Engineering Student

Email: islemchammakhi@gmail.com

GitHub: <https://github.com/Islem-Chammakhi>

Portfolio: <https://code-canvas-portfolio-04.vercel.app/>

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Location: Tunisia

## Summary

Software Engineering student focused on building and maintaining scalable backend systems and clean architectures.

Experienced in designing APIs, managing services, and improving reliability through monitoring and observability.

Comfortable working with modern backend stacks, containers, and system performance optimization.

Curious about AI and data-driven approaches, and how they can enhance backend systems and automation.

## Projects

### NotiSmart : Secure Student Grades Distribution Platform

Monastir, Tunisia

11/2025 - 12/2025

GitHub: <https://github.com/Islem-Chammakhi/noti-smart>

- Co-developed a secure web platform to replace an insecure shared-drive approach used for student grade distribution.
- Designed a scalable backend architecture using Spring Boot, PostgreSQL, and Hibernate ORM.
- Implemented security mechanisms with Spring Security and OTP-based authentication to protect student data and privacy.
- Integrated Prometheus for application monitoring, focusing on reliability and third-party service usage.
- Used Docker to run the application reliably and portably across different environments.
- Collaborated in a team setting during a university hackathon, winning first place.

### TuniTales : AI-Powered Cultural Tourism Assistant

Sousse, Tunisia

06/2025

GitHub: <https://github.com/Islem-Chammakhi/TuniTales>

- Developed an AI-based web application to help tourists identify and explore historical monuments in Tunisia using images.
- Fine-tuned an EfficientNetB0 model with TensorFlow for image recognition on a custom dataset.
- Integrated text-to-speech features to provide narrated cultural information to users.
- Designed a Grafana dashboard to monitor model requests and token consumption.
- Worked in a team-based hackathon environment to deliver an end-to-end AI-driven solution.

## Experience

### Volunteery

Tunis, Tunisia

#### Backend Developer Intern

01/2026 - Present

- Developing a backend web application to match volunteers with non-profit organizations.
- Designing RESTful APIs using Nest.js with PostgreSQL and Prisma ORM.
- Applying clean architecture principles and working in a collaborative, team-based environment.
- Using Docker for local development and deployment consistency.

### UniSavoir

Manouba, Tunisia

#### Web Developer (Gamified 2D Games + AI)

08/2025 - 09/2025

- Developed interactive 2D educational games for the web using Phaser.js.
- Integrated basic AI components using TensorFlow to enhance game behavior and user interaction.
- Collaborated with a multidisciplinary team to design gamified learning experiences.
- Gained experience in combining software engineering with educational and AI-driven concepts.

## Skills

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Programming Languages : Java | JavaScript | Python

Frameworks : Spring Boot | Nest.js | React.js

Databases & ORMs : PostgreSQL | MongoDB | Hibernate | Prisma

DevOps & Infrastructure : Docker | Docker Swarm | REST APIs

Observability & Monitoring : Prometheus | Grafana

## Education

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Higher Institute of Computer Science and Mathematics of Monastir

Monastir, Tunisia

09/2024 - Present

Engineering Cycle - Software Specialization

- Software design and architecture
- Distributed systems
- Modern development practices

Higher Institute of Computer Science and Mathematics of Monastir

Monastir, Tunisia

09/2022 - 06/2024

Integrated Preparatory Cycle in Computer Science

- Intensive training in mathematics, algorithms, and programming fundamentals