

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

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

Higher Institute of Computer Science and Mathematics of Monastir	Monastir, Tunisia 09/2024 - Present
Engineering Cycle - Software Specialization <ul style="list-style-type: none">Software design and architectureDistributed systemsModern development practices	
Higher Institute of Computer Science and Mathematics of Monastir	Monastir, Tunisia 09/2022 - 06/2024
Integrated Preparatory Cycle in Computer Science <ul style="list-style-type: none">Intensive training in mathematics, algorithms, and programming fundamentals	