

Fedi Ben Abdesslem

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ABOUT ME

Computer Science engineering student and Systems enthusiast with deep interest in bridging the gap between rigorous mathematical theory and practical engineering, aiming to transform complex low-level mechanics into intuitive, artistic solutions that solve modern engineering challenges.

EDUCATION

• National School of Engineers in Sousse - ENISO

Sousse, Tunisia

Master's-level degree in Applied Computer Science Engineering

September 2025 - Present

- Experience working on engineering and research-oriented projects.
- Focus on practical, project-based learning and real-world problem solving.
- Coursework covering algorithms, operating systems, networks, databases, and web technologies.

• Monastir Preparatory Engineering Institute

Monastir, Tunisia

Physics & Technologie Pre-Engineering Studies

September 2023 - June 2025

- Intensive and highly selective two-year scientific program, serving as a preparatory course for the national entrance exams to engineering schools.
- **Rank:** 99/769 in the national entrance exam for engineering schools.
- **Courses:** Analysis and Calculus, Algebra, Physics, Chemistry, Computer Science, Engineering Science and Technology, French, English, mechanical design and manufacture.

ACADEMIC PROJECTS

• Real-Time Container Security Visualization System: (December 2025)

- Designed and implemented a container behavior monitoring system providing real-time syscall and network-level observability for Docker containers without modifying application code.
- Developed **eBPF programs (C)** using **BCC** to trace **Linux syscalls** and **TCP network** events, safely executed under kernel verifier constraints.
- Built a **host-based monitoring pipeline** mapping process IDs (PIDs) to Docker containers using cgroups, /proc filesystem analysis, and **Docker Engine** metadata.
- Implemented a **Python** event collector and enrichment layer to aggregate raw kernel events, correlate them with container context, and stream structured security events.
- Demonstrated detection of abnormal runtime behaviors such as unexpected network connections, anomalous syscall patterns, and suspicious container interactions.
- Emphasized low-overhead, read-only observability, ensuring minimal performance impact and strong isolation guarantees.

• AI-Powered Writing Assistant Platform — Frontend Development: (October 2025)

- Designed and developed a **responsive frontend application** for an AI-powered writing assistant that transforms draft emails and meeting minutes into professional content, using **React.js** and **Tailwind CSS**.
- Implemented **authentication flows** including user registration, login, and session handling, enabling personalized and secure access to writing features.
- Built modular **React components** for text input, AI-generated rewrites, editing workflows, and real-time feedback presentation.
- Integrated the frontend with **REST API** endpoints to submit user content (emails, minutes), retrieve AI-generated responses, and manage authentication requests.
- Managed **client-side state** and **asynchronous API calls**, handling loading states, errors, and user interaction flows.

SKILLS SUMMARY

- **Programming Languages:** Python, C/C++, Java, JavaScript/TypeScript.
- **Frameworks & Technologies:** Linux Kernel, eBPF, BCC, System Call Tracing, Network Monitoring, Runtime Security, Distributed Systems Observability.
- **Web & Mobile Development:** React.js, REST APIs, Frontend Architecture, UI/UX Design, Fast APIs.
- **DevOps & Tools:** Docker, Kubernetes, Git/GitHub.
- **Soft Skills:** Negotiation, Communication, Adaptability & Flexibility, Initiative & Persuasion, Time Management.
- **Languages:** Arabic (Native), English (B2), French (B1).

CERTIFICATES

Foundations of Cybersecurity - Google

Play It Safe: Manage Security Risks - Google