

Seif Eddine Mezned | Software Engineering Student — MedTech University

+216 28 419 160 • seifmezned.2004@gmail.com • Seif Eddine Mezned

Languages: English (C2), French (C1), Arabic (Native), German (B1)

Education

South Mediterranean University – MedTech

Tunisia

B.Eng. in Software Engineering

2023–2028

Key courses: Algorithms, Data Structures, Linear Algebra, Probability, Graph Theory.

Lycée Korba

High School Diploma, Tunisia

2023

Awards & Distinctions

Best Project of the Year (2024–2025) – MedTech.

Awarded for JobFinder AI Platform integrating FUSION multi-agent architecture.

Best Project Award – IEEE PES TGM 6.0 National Congress.

Samsung Innovation Campus (SIC) – AI IoT Track.

Capstone Project: **95.5/100 – 3rd Place Overall.**

Research Preprint – FUSION Multi-Agent Architecture.

Adaptive agent collaboration framework; **90+ downloads** internationally.

Competitions

#1 Worldwide – CS Academy Algorithms Scoreboard.

#1 Global Rank – IEEEExtreme Practice Community.

Top 6 – Codeforces Educational Round 180 (Div. 2).

Professional Experience

Altutex International

Lead Software Engineer

Tunis, Tunisia

Oct 2025–Present

- Designed and deployed a real-time wireless industrial monitoring system across **600+ production machines**.
- Architected and maintain the complete backend and server infrastructure independently.
- Built an interactive **3D digital twin of the factory floor** visualizing machine-level live performance metrics.
- Developed executive dashboards for bottleneck detection and productivity optimization.
- Enabled significant productivity improvement through real-time data-driven feedback systems.

Mobile Startups (2 Companies)

Mobile Developer

Tunis, Tunisia

Aug 2025–Present

- Built and deployed scalable production mobile applications (UI, APIs, authentication, optimization).
- Collaborated with founders on rapid feature cycles and release management.

AI Intern – Avempace

Tunis, Tunisia

2025

- Developed energy forecasting microservice (LightGBM, **94.2% accuracy**).
- Deployed REST API supporting predictive maintenance systems.

Selected Projects

JobFinder – AI Employment Platform (Award-Winning)

2025

Built AI-based job matching and interview simulation ecosystem using FUSION multi-agent architecture. **55% faster inference, 34% lower resource usage** vs baseline systems.

Mood-Adaptive Music Platform – City of Paris Initiative

2025

Designed full-stack AI architecture (React Native, Flask, Docker, Azure CI/CD). Implemented multimodal emotion recognition and GDPR-compliant privacy layer.

Independent AI Systems: SeifVision (Diffusion Model Platform), SeifCLI (LLM Terminal Assistant), SeifEcho (Encrypted Mesh Chat).

Leadership

Chair – IEEE Computer Society Student Chapter, MedTech University (2026–Present)

Leading AI and software engineering initiatives.

Teaching Assistant – Data Structures (2024).

Technical Skills

AI/ML: Generative AI, LLM Fine-Tuning, Multi-Agent Systems, NLP, Computer Vision, Forecasting.

Frameworks: PyTorch, TensorFlow, Flask, FastAPI, React, Jetpack Compose, LangChain.

Programming: Python, Java, Kotlin, C, JavaScript, SQL, Bash.

Infrastructure: Docker, Azure Cloud, Real-Time Systems.

Certifications

IBM AI Engineering Professional Certificate • Generative AI & LLMs (IBM) • Deep Learning (IBM) • Machine Learning (IBM) • Database Management (Amazon).