

**Seif Eddine Mezned** | Software Engineering Student — MedTech University  
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Languages: English (C2), French (C1), Arabic (Native), German (B1)

## Education

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**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

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**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

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**#1 Worldwide – CS Academy Algorithms Scoreboard.**  
**#1 Global Rank – IEEEExtreme Practice Community.**  
Top 6 – Codeforces Educational Round 180 (Div. 2).

## Professional Experience

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**Altutex International** Tunis, Tunisia  
*Lead Software Engineer* 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)** Tunis, Tunisia  
*Mobile Developer* 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

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**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**

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

Leading AI and software engineering initiatives.

Teaching Assistant – Data Structures (2024).

## **Technical Skills**

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**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**

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