

MOHAMED ALI DJEMAL

ENGINEERING STUDENT

📞 27 764 509 | ✉️ mohamed.ali.djemal@proton.me |  Mohamed Ali Djemal
 chameauu |  djemalmedali.tech

SUMMARY

I'm a final year engineering student who thrives on collaboration and knowledge sharing. Through hackathons and challenges, I've sharpened my teamwork, research, and time management skills, while continuously self learning via courses and books. I'm now seeking a collaborative, learning-driven environment that encourages curiosity and problem solving where I can grow professionally and reach my full potential.

PROJECTS

- AgentTracer** 2026
- A local visual debugger for AI agents that traces LLM runs and lets developers inspect spans, tool calls, prompts, and responses step by step
 - A full-stack tool built end to end: an OpenTelemetry-based Python SDK, a FastAPI backend with SQLite storage, and a React UI that displays each run as an interactive trace tree
 - OpenTelemetry, Protobuf, FastAPI, SQLAlchemy, SQLite, React
- Kubernetes CI/CD Platform** 2026
- An academic project simulating a production platform using Kubernetes and Infrastructure as Code
 - A fully automated, reproducible local Kubernetes platform designed to mirror a real production environment
 - Through this project, I learned how Kubernetes manages containers and workloads across different nodes. I also understood how Infrastructure as Code makes environments easier to reuse and move.
 - Vagrant, Ansible, Kubernetes, kubeadm, Flannel, Jenkins, Helm, Nexus, Gitea, NFS, Prometheus, Grafana

PROFESSIONAL EXPERIENCE

- Summer Internship at Telnet** 2026
- Built AI-powered EMV TLV Parser & Editor, an intelligent tool to parse, generate, analyze, and edit payment terminal transaction data and configurations using natural language commands.
 - LangChain, Ollama, ChromaDB, RAG, Function Calling, CustomTkinter, Strategy/Adapter/Decorator patterns, PyPI, BER-TLV.
- Summer Internship at Data Engineering and Semantics Unit, FSS** 2025
- I collaborated with my partner to build IoTFlow a platform to manage and monitor the faculty's IoT devices.
 - Event Driven, MQTT, Flask, NoSQL DB, Microservices, Docker, Github Actions, CI/CD, Azure, Kubernetes, Prometheus, Grafana

EDUCATION

- Faculty of Sciences of Sfax** 2027
- Engineering Degree in Computer Science , Specialty : Data Engineering
- (Operating System ,Distributed Systems, Big Data , Virtualization , Cloud Computing, DevOps , Kubernetes and IaC)

EXTRA-CURRICULAR ACTIVITIES

- First Place in MasterFaster3.0 hackathon 2026
- 6th place in IEEE IAS TSYP Challenge 2025
- IEEE IAS Chapter FSS Treasurer 2025
- Co-Founder & Co-lead Of Competitive Programming Club FSS 2024
- Logistic Manager with TUNGO Talk Podcast By GDG SFAX 2023

CERTIFICATIONS

- Introduction to Data Engineering
 - Algorithmic Toolbox
- Algorithms on Graphs
 - Machine Learning Specialization

SKILLS

Technical: Linux • Kubernetes • Docker • Azure • Shell • Cloud Infrastructure • Git • Github Actions • Jenkins • DevOps
CI/CD • Python • C++ • Java • SQL • OpenTelemetry • Prometheus • Grafana , Test Driven Development
Soft: Communication • Teamwork • Problem Solving • Adaptability • Time Management
Languages: Arabic • English • French