Ahmed SAAD

Software & Networks Engineering Student – INSAT

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Education

National Institute of Applied Science and Technology (INSAT)   *Sep 2023 – Jun 2028*
M.Eng. in Software & Networks Engineering (5-Year Integrated Degree) – Tunisia's Leading Engineering School

Lycée Hannibal Ariana   *Jun 2023*
High School Diploma, Computer Science Track – Graduated with High Honors (Top 0.15% – Ranked 11th / 8,000)

Experience

Software Developer   *Sep 2024 – Dec 2025*
Junior Entreprise INSAT

- Engineered and deployed 3 full-stack production websites for real enterprise clients, managing the complete lifecycle from architectural design to cloud hosting and client handoff.

Full Stack Engineer Intern   *Jul 2024 – Aug 2024*
Sofrecom – Leading Telecom Consulting Firm

- Engineered a production-grade Web3 CSR platform that **increased stakeholder transparency by 40%**, utilizing a MongoDB/Express architecture and an Angular frontend.
- Implemented gamified features and robust RESTful APIs, optimizing query response times and increasing daily user engagement by **30%**.

Selected Projects & Hackathon Wins (6x Winner)

3rd Place – IHEC CodeLab 2.0 (FAIN Trading Ecosystem)   *Feb 2026*

- Co-architected a **12-microservice** AI trading terminal for the Tunis Stock Exchange via an API gateway.
- Engineered an **XGBoost** forecasting engine and a **PPO** portfolio optimizer with **SHAP** explainability, connected directly to real-time central bank and macro data.

1st Place – Vectors in Orbit (Sponsored by Qdrant, InstaDeep & YellowSys)   *Jan 2026*

- Architected a 5-agent Co-Scientist pipeline over **NestJS/Python** microservices to auto-generate IEEE research papers.
- Integrated **XQdrant** (a custom **Rust** fork of Qdrant) to decompose **ESM-2** embeddings, providing Explainable AI (XAI) insights mathematically mapped to biological properties for drug discovery.

Best Pitch Award – AIxCYBER Hackathon (VeriVest Tokenization)   *Dec 2025*

- Built Tunisia's first AI-driven real estate fractionalization platform, leveraging **Hedera Hashgraph (HTS/HCS)** for asset tokenization and creating immutable on-chain audit logs of AI valuations generated via **n8n**.

1st Place (1/30+ teams) – AstroPreneur Hackathon (AstroVerse)   *Nov 2025*

- Orchestrated **11 specialized AI agents** via **n8n** to generate investor-ready business PDFs in a **22-hour sprint**.
- Decoupled a **Next.js 15** frontend from a custom **FastAPI** and WeasyPrint rendering microservice architecture.

1st Place (Solo vs teams of 3) – NEXT Challenge by BH Assurance   *Sep 2025*

- Solo-engineered a hallucination-free **MoE RAG** insurance advisor over a month-long competition.
- Built a 4-service platform using **Qdrant** and **Qwen3** models running **100% locally**, parsing highly unstructured, multilingual PDF/CSV data pipelines via **Gemini 2.5 Pro**.

1st Place – JCR Challenge (Serverless AI Platform)   *Apr 2025*

- Deployed an ML course recommender globally to the edge in a **4-hour sprint** utilizing **Cloudflare Workers**.
- Trained an **XGBoost + Random Forest** ensemble achieving sub-50ms response times backed by Neon Serverless Postgres.

Peak Global Rank: 10th/8,793 teams (Top 0.11%) – IEEEXtreme 18.0   *Oct 2024*

- Reached the top 0.11% in a 24-hour global algorithmic marathon by utilizing modern generative AI tools alongside manual optimization at extreme velocity.

Technical Skills

Programming:	Python, TypeScript/JavaScript, Rust, C/C++, Java, Go, SQL
Backend & Cloud:	Node.js, NestJS, FastAPI, Cloudflare Workers, Microservices, Docker
Frontend:	Next.js, Tailwind CSS, React, Angular, Framer Motion
AI & Data:	XGBoost, ESM-2, RAG, Ollama, n8n, LangChain, Qdrant, HuggingFace
Databases:	PostgreSQL (Neon), MongoDB, Redis, Drizzle ORM, Prisma, Database Design
Other Tools:	Web3 (Hedera HCS/HTS), System Architecture, JWT/Auth, Git, Agile/Scrum

Leadership & Extracurricular Activities

- **Vice President, ACM INSAT Student Chapter (Aug 2025 – Present):** Lead Tunisia's premier CS student organization (15+ officers). Personally hosted an official technical workshop in partnership with **n8n**, training students on advanced AI agent orchestration.
- **HR Manager, Winter Cup 7.0 (Feb – Mar 2025):** Coordinated 40+ volunteers to execute a 300+ participant competitive programming competition (98% satisfaction rate).
- **Member, Securinets (2023 – Present):** Compete in CTF competitions focusing on forensics and web exploitation.