

Mohamed Aziz Taamalli

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EDUCATION

Higher institute of information and communication technologies

Bachelor's degree , Computer Science (Software Engineering and Information Systems)

Carthage University

2022-2025

Virtual University Of Tunis

Master Of Engineering , Business Analytics And Data Science

UVT

2025-2027 (In Progress)

PROFILE

Junior Software Engineer focused on backend development, data-driven systems, and product building. I build REST APIs with FastAPI, work with relational and NoSQL databases, and enjoy shipping real products from idea to deployment. I have built and launched user-facing applications, including a real-time public transport app used by early users in Tunisia. Strong in problem solving, system design, and understanding how software behaves in production

SKILLS

Languages: Python, Java, C++, SQL

Frontend/Mobile : Angular, Flutter

Backend: FastAPI, SQLAlchemy, Alembic, system design, clean architecture

Databases: PostgreSQL, MongoDB, Cassandra

DevOps/Cloud: Docker, Git, Railway, Neon, AWS (serverless stack)

Data/ML: Pandas, Matplotlib, scikit-learn, basic fine-tuning techniques

CERTIFICATES

Data Analytics Certificate: Google

[Link](#)

Problem Solving with C++ Certificate: HackerRank

[Link](#)

Java programming: HackerRank

[Link](#)

AWS Cloud Technical Essentials : Amazon Web Services

[Link](#)

Organizations / Clubs

- Member of the IEEE Computer Society chapter

2024-present

PROFESSIONAL EXPERIENCE

- **AI Intern: Ozeol | 06/2024 - 08/2024:** Developing and deploying an ML model for classifying potential suppliers

- **End of studies project internship: Carbon Insights | 01/2025 - 05/2025 :**

- Automated data extraction/processing pipeline using AWS (SST/Serverless) + Python
- Trained an EU-ETS carbon emission prediction model; evaluated with (MAE/RMSE)
- Delivered (API/report/dashboard) and documented the workflow

PROJECTS & CONTRIBUTIONS

- **SPOT project : Real-time public transport tracking app for Tunisian commuters** | [Link to app](#)
 - Built and shipped a mobile app designed to help users track buses and metros and save time during daily transport
 - Developed the full product stack solo using Flutter, FastAPI, Cassandra/AstraDB, and Render
 - Released the app in closed beta with 37 active test users and iterated on the product based on early feedback
 - Owned the product end-to-end, from idea and architecture to development, testing, deployment, and user-facing improvements
- **GARAGY project:** [GitHub](#)
 - Built production-style REST API with FastAPI + PostgreSQL (SQLAlchemy, Alembic).
 - Implemented JWT auth + RBAC and full workflow (requests → offers → jobs → disputes).
 - Added CI tests + notifications; deployed on Railway with managed Postgres on Neon.
- **CoachTN project:** [GitHub](#)
 - Built a production-grade FastAPI + Postgres backend (async SQLAlchemy, Alembic) with JWT auth/refresh, service/repo layering, rate limiting, and CI (ruff/mypy/pytest) in Docker.
 - Added configurable Ollama-powered AI for coach chat, plan adjustments, and check-in suggestions, with observability (request IDs, structured logs, health/readiness) and strict password policy.
 - Integrated the React/Tailwind frontend to the live API (auth, onboarding, plans, workouts, tracking, AI chat/suggestions).
- **Web academic Project:** Municipality services online: [GitHub](#)
- **Mobile App:** developed with Flutter and Firebase for lost and found items in universities: [Github](#)
- **IEEE XTREME 19.0 participation (competitive programming):** 45/1077 Nationally and 663/9409 Globally: [Link](#)
- **IEEE Computational Intelligence Society** : Machine Learning instructor: [LinkedIn](#)
- **Academic project** : Spring-Boot CRUD (camera security management) : [GitHub](#)