

Ines CHERIF

Software Engineering Student — Generative AI & Full-Stack Development

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PROFESSIONAL SUMMARY

Software engineering student who turns real business needs into reliable software, from design to delivery. Experienced in projects where code quality, accurate results, and data integrity matter. I enjoy experimenting, solving problems, and building useful, lasting solutions.

PROFESSIONAL EXPERIENCE

Generative AI Engineer — Intern

July 2026 – August 2026

Talan Tunisia — Innovation Factory (SummerCamp)

Tunis, Tunisia

LangGraph, Mistral AI, Qdrant, FastAPI, React, TypeScript, Vercel, Render

Urban Mind project: generative AI platform supporting urban planning, as part of the AI engineering team within a 13-person squad.

- Built a legal RAG engine with hybrid search over nearly 9,000 law articles; every answer cites its sources and every figure is verified to prevent hallucinations.
- Orchestrated 4 agent pipelines with human validation at key steps, following the principle “the LLM proposes, the code computes”.
- Shipped to production: 734 automated tests that run offline, cloud deployment (Vercel, Render), and AI Act compliance for generated documents.

Software & Data Engineer — Intern

July 2026 – September 2026

Leads Provider — Part-time

Bizerte, Tunisia (remote, France-based client)

Python, PostgreSQL, Supabase, pandas, SIRENE API, Git

- Built a reliable B2B prospecting database from scattered Excel files: cleaned, deduplicated and enriched 128,000+ companies using the public SIRENE registry.
- Automated the collection of phone numbers, emails and websites from free public sources, cross-checked across independent sources: made 6 out of 10 prospects reachable at zero cost.
- Delivered ready-to-use campaign files to the client, protected by automated quality checks that block any export containing anomalies.

Software Engineer — Intern

January 2024 – June 2024

Tabaani Startup

Tunis, Tunisia

React, Redux, Firebase, Node.js

- Redesigned the “Become a Host” onboarding flow (5+ form steps) and developed it end to end: React interface, back-end APIs, authentication and deployment, integrating 4+ key system components.
- Refactored legacy code into a modular architecture (10+ components and modules), improving maintainability and readability.

ACADEMIC PROJECTS

Agentic RAG Chatbot

LangChain, LangGraph, Groq API, ChromaDB, SQLite, FastAPI, ReactJS

- Designed a multi-node LangGraph agent with 3+ conditional routing paths (retrieval, generation, fallback) enabling context-aware, multi-turn conversations.
- Developed a full-stack RAG system (ChromaDB, SQLite, FastAPI, ReactJS) with persistent chat history and vector search; applied LLMOps best practices: structured prompts, token-efficient context windowing and modular nodes.

AgenticHire — Multi-Agent Recruitment Platform

Python, FastAPI, React, Vite, Mistral AI (Pixtral), SQLite, Beautiful Soup, MCP

- Co-designed a conversational multi-agent recruitment platform: CV analysis and scoring, job matching across 4 sources (LinkedIn, RemoteOK, WeWorkRemotely, Adzuna) and recruiter content generation.
- Integrated CV OCR (Pixtral) and a RAG on ATS best practices; standardized agent tools through MCP (Model Context Protocol) and hardened security following the OWASP LLM Top 10, including a PII anonymization gateway.

Final-Year Project Tracking Platform

ReactJS, Node.js, Express, MongoDB

- Developed a full-stack platform to manage end-of-studies projects: React.js front end, Node.js/Express REST API and database schema design.
- Implemented role-based authentication for three profiles (Student, Company, University), task tracking for 100+ users and reporting dashboards.

Containerized Microservices Platform (Mini Cloud)

Docker, Docker Compose, Nginx, Flask, PostgreSQL, Redis, Prometheus, Grafana, cAdvisor, GitHub Actions

- Designed an 8-container architecture: Nginx gateway (reverse proxy, load balancing, HTTPS redirection), two Flask microservices, PostgreSQL database and Redis cache.
- Set up monitoring (Prometheus, cAdvisor, Grafana), validated horizontal scaling through load tests, and automated CI/CD with GitHub Actions (Docker image build and push to Docker Hub on every commit).

Distributed Big Data Cluster: Hadoop & Spark on Docker

Hadoop, HDFS, YARN, MapReduce, Spark SQL, Docker, Docker Compose, Python, Ubuntu

- Deployed a Hadoop/Spark cluster (HDFS, YARN) with Docker Compose on Ubuntu 22.04; optimized it from 9 to 4 containers to fit an 8 GB RAM VM (13 GB down to 5.5 GB).
- Analyzed sales data with Python MapReduce jobs and 6 advanced Spark SQL queries (CTEs, window functions).

Other projects: developed an IoT mobile app “Smart Farm” (React Native, Firebase); created a 2D game “Trap Dungeon Escape” (Unity, C#); evaluated information retrieval models (BM25, TF-IDF, Hiemstra) with PyTerrier.

TECHNICAL SKILLS

AI & GenAI: LLM, RAG, AI agents, LangChain, LangGraph, prompt engineering, embeddings, OpenAI API, Mistral AI, Hugging Face, ChromaDB, Qdrant, Pinecone, LLMOps

Languages: Python, TypeScript, JavaScript, Java, C, C#, Dart, PHP, SQL, HTML5, CSS3

Web & Backend: ReactJS, Redux, Node.js, Express, FastAPI, REST API, React Native, Flutter, Tailwind CSS, Bootstrap

Databases: PostgreSQL, Supabase, MongoDB, MySQL, SQLite, Oracle, Firebase

DevOps & Cloud: Git, GitHub, Docker, Docker Compose, GitHub Actions (CI/CD), Nginx, Bash, Linux, Prometheus, Grafana, Redis, Azure, Vercel, Render

Big Data, Data & BI: Hadoop, HDFS, YARN, MapReduce, Apache Spark, Spark SQL, pandas, Power BI, Talend (ETL), Excel

Project Management & Networking: Jira, ClickUp, Scrum, Kanban; CCNA (Introduction to Networks, Switching, Routing & Wireless Essentials)

EDUCATION

Engineering Degree in Computer Science & Multimedia — Software Engineering <i>Higher Institute of Multimedia Arts of Manouba (ISAMM)</i>	2024 – Present <i>Manouba, Tunisia</i>
Bachelor’s Degree in Business Intelligence <i>Faculty of Economic Sciences and Management of Tunis (FSEGT)</i>	2020 – 2023 <i>Tunis, Tunisia</i>
Technical High School Diploma (Baccalauréat) <i>Lycée Mohammed Ali Annabi</i>	2019 – 2020 <i>Ras El Djebel, Tunisia</i>

CERTIFICATIONS

• Associate AI Engineer for Developers — DataCamp	February 2026
• CCNA: Switching, Routing & Wireless Essentials — Cisco	December 2025
• Generative AI Fundamentals — Databricks Academy	October 2025
• Develop GenAI Apps with Gemini & Streamlit — Google Cloud	2025
• CCNA: Introduction to Networks — Cisco	April 2025
• SCRUM Foundation Professional Certificate — SCRUMstudy	2024

EXTRACURRICULAR ACTIVITIES

Active Member <i>GDG On Campus ISAMM — Google Developer Groups</i>	2024 – Present <i>ISAMM, Tunisia</i>
• Attended workshops (Google Cloud, generative AI) and co-organized tech events.	

LANGUAGES

Arabic: native | **French:** fluent | **English:** professional working proficiency

INTERESTS

- **Creative generative AI:** testing the latest image, video and 3D models.
- **2D game development:** building and publishing small games on Unity.
- **Tech watch:** hackathons and tech events (GDG community).