

Haroun Khmiri

Data Scientist & AI Engineer

✉ haroun.khmiri@polytechnicien.tn ☎ +216 94111668

📍 Zaghouan, Tunisia

🌐 <https://www.linkedin.com/in/haroun-khmiri-5581a2239/>

🔗 <https://github.com/Haroun-Jinzo> 🔗 www.harounkhmiri.me



Professional Profile

My name is Haroun Khmiri, I am Currently completing my Engineering degree at Ecole Polytechnique de Sousse, I am dedicated to bridging the gap between theoretical AI concepts and real-world solutions. Fueled by an analytical mindset and a background in complex system development, I am looking for a challenging internship or full-time role in Data Science where I can leverage my skills in C++, Python, and Deep Learning to drive innovation.

Professional Experience

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|--|-------------------|
| Data Scientist Intern, ARSII | 07/2025 – 09/2025 |
| <ul style="list-style-type: none">• Generating synthetic data of blood culture signals.• Preprocessing and feature engineering.• Designed models that Identify pathogens through blood culture cells and predict their antibiotic resistances• Scaled, trained and evaluated pathogens detection models.• Developed interactive interfaces to test medical data. | Sousse, Sahloul |
| AR/VR Developer, Shetech Studio | 10/2023 – 09/2024 |
| <ul style="list-style-type: none">• Engineered immersive AR/VR applications: implemented strategic AI behaviors.• Built a VR system that tracks biometrics and syncing to a real-time analytics dashboard.• Data Collection of player heart rate through oculus rift. | sahline, Monastir |
| Gameplay Programmer Intern, Herodot | 02/2023 – 06/2023 |
| <ul style="list-style-type: none">• Developed core gameplay mechanics and optimized client-server networking with Netcode, enhanced latency and stability for multiplayer prototypes. | Ariana, Tunis |

Education

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|---|----------------|
| Engineering Degree AI & Data Science, Polytechnique Sousse | 2023 – Present |
| <ul style="list-style-type: none">• Specializing in data engineering, statistical learning, and scalable software architecture. | |
| Bachelor's in Computer Science, ISIG-K | 2020 – 2023 |
| <ul style="list-style-type: none">• Focused on algorithms, software design patterns, and system optimization. | |

Selected Projects

- Academic Project: Financial Report Analysis,**
Python, NLP, Spacy, NLTK, Docker, Transformer, Git/GitHub Actions
- build and deployed Analysis natural language processing system designed to automate the extraction, analysis, and insight generation from financial reports. The platform processes PDF documents

Personal Project: C++ ML Framework, C++, STL, K-Means, K-NN, Neural Networks

- Authored core ML algorithms from scratch using c++ STL, Implementing model such as K means, decision tree etc...

Personal Project: Stock values Prediction Model, DL, LSTM, RNN, Python

- Developed a stock values prediction model utilizing techniques such as LSTM and recurrent neural network in python.

Academic Project: Salary Prediction & Exoplanet Classification,

Python, Scikit-learn, Flask, Streamlit, Docker, Git/GitHub Actions

- Developed salary prediction and exoplanet classification models.

Personal Project: Heap-Optimized Pathfinding, Unity, C#, A* Algorithm, Octree Partitioning

- Engineered high-performance pathfinding for 10K+ nodes using heap sorting and octree spatial partitioning, halving route computation time.

Academic Project: Narrative game with reinforcement learning,

Python, Reinforcement Learning, Unity, Gamification

- I developed a game where AI suspects learn to lie, evade, and deceive while the human player tries to catch them, powered with reinforcement learning and gemini API.

Personal Project: Procedural World Generation, Unity, C#, Perlin Noise

- Developed a flexible terrain engine for forests, deserts, and mountains, cutting manual design time by 70% via procedural pipelines.

Personal Project: Custom C++ Game Engine, C++, OpenGL, Assimp, STB Image

- Crafted a modular 3D engine with octree collision and batch-rendered lighting.

Academic Project: Library Management System, C#, .NET, SQLite, LiveCharts

- Automated library workflows and dashboards, reducing administrative tasks.

Academic Project: Recommendation Engine Backend, RestAPI, gRPC, GraphQL, Kafka, JWT, Docker

- Designed microservices for authentication, cataloging, and real-time recommendations.

Personal Project: Turn-Based Tactical Card Game Powered by GOAP AI system,

Unity, C#, AI Behavior Trees, GOAP

- Designed a tactical card battler with AI-driven opponents and dynamic mechanics.