

Tahir AGALLIU

MSc Computer Science Student | Software Engineer



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🌐 Tahir Agalliu 📱 iTahirz 📁 Portfolio

EDUCATION

- University of Milan

MSc in Computer Science (LM-18)

Milan, Italy

September 2025 – Present

- Major Focus: Advanced Software Engineering, Cloud Computing, Intelligent Systems.
- University of Insubria

BSc in Computer Science

Varese, Italy

September 2022 – July 2025

- Grade: 102/110.
 - Thesis: "Secure IoT Microservices Architecture" (Hybrid Cryptography AES + ECC).
 - Key Achievement: Designed a secure architecture with custom Certificate Authority for IoT.

EXPERIENCE

- AVIS Arona

Healthcare Data Specialist & Volunteer

Arona, Italy

December 2025 – Present

- Orchestrating critical data flow between biomedical devices and National Health (ASL) systems.
 - Ensuring integrity, privacy, and security of sensitive blood donation records.
 - Active blood donor, combining technical responsibilities with deep civic commitment.
- University of Insubria

University Tutor & Data Manager

Varese, Italy

June 2025 – July 2025

- Managed relational databases to support student orientation and optimize workflows.
 - Provided technical mentoring to incoming students, facilitating academic integration.
- Dinger Stone

Precision CNC Operator

Endingen, Germany

June 2021 – September 2021

- Operated high-precision CNC machinery in an international, German-speaking environment.
 - Ensured rigorous manufacturing standards demonstrating adaptability in a foreign workplace.
- French Foreign Legion

Legionnaire

France

October 2020 – January 2021

- Developed elite discipline, rapid problem-solving, and teamwork in high-stress environments.
 - Demonstrated exceptional resilience and adaptability under extreme pressure.
- OMSC

CNC Operator & Programmer

Angera, Italy

December 2019 – September 2020

- Optimized G-Code programming for CNC machinery to enhance production efficiency.
 - Developed precision technical skills and understanding of complex manufacturing workflows.

SELECTED PROJECTS

- ECG Signal Decomposition

Tech: TensorFlow, U-Net

AI / Bio-Engineering

Academic Project

- Leveraged Deep Learning to enhance signal processing implementing a 1D U-Net architecture.
 - Effectively resolved spectral overlap in ECG waveforms, improving diagnostic clarity.
- LLM Cultural Alignment

Tech: PyTorch, Transformers

NLP / Research

Academic Project

- Conducted advanced research on tokenization failures in Low-Resource languages (Yoruba).
 - Performed Shannon Entropy analysis on Qwen/Phi models to improve interpretability.
- Scientific Data Visualization

Tech: VTK, Python

Scientific Computing

Academic Project

- Engineered rendering pipelines for high-dimensional scientific data using VTK.
 - Implemented algorithms like Isosurface extraction and Volume Rendering for data analysis.

LANGUAGES

Italian: Native • Albanian: Native • English: Proficient (B2) • French: Elementary (A2)

TECHNICAL SKILLS

- Coding: Python (AI/Data), Java, Kotlin, SQL, NoSQL.
 - DevOps & Cloud: Microservices, Docker, Git.
 - Databases: PostgreSQL, MongoDB.
- AI & ML: TensorFlow, PyTorch, Transformers.
 - Sci. Computing: VTK, Data Analysis libs.
 - Web & Mobile: Node.js, Android SDK, Firebase.

I hereby authorize the processing of my personal data included in my CV in accordance with Legislative Decree no. 196 of 30 June 2003 and Article 13 of GDPR (EU Regulation 2016/679).