DANIELE IANIA

Software Engineer

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SUMMARY

Computer Engineer dedicated to building scalable software and exploring the frontiers of Artificial Intelligence. Currently balancing professional software engineering with an MSc at Polimi. Passionate about solving complex problems through innovative code and intelligent systems.

KEY SKILLS

AI & Machine Learning

- NLP & Generative AI (RAG)
- Agentic AI Frameworks
- Deep Learning (PyTorch)
- Reinforcement Learning
- Robotics

Software Engineering

- RESTful & SOAP APIs
- Microservices Architecture
- Unit Testing & Code Review
- CI/CD (GitLab/GitHub)
- Version Control (Git, SVN)

Languages & Tools

- C#, Python, C/C++, Java
- SQL, NoSQL, Vector DB
- Docker, IIS Deployment
- LINQ, LaTeX

WORK EXPERIENCE

Software Engineer | TXT E-Tech **Full-Remote | July 2024 – Present**

- **End-to-End Ownership**: Solely responsible for the development, maintenance, and evolution of a mission-critical software component facilitating RESTful API data exchange between ground infrastructure and in-flight avionics systems.
- **Client Support & UAT**: Directly support the end-client.
- **Deployment**: Managed the release and configuration of new application versions on IIS servers, ensuring zero-downtime transitions.
- **Tech Stack**: .NET, C#, SQL Server, LINQ, JavaScript, TypeScript, React, Node.js, GitLab, SVN.

STEM Tutor | Freelance **Remote/On-site | Sept 2022 – Present**

- Mentor high school and university students in Mathematics and Computer Science (8–10 hours weekly).

RELEVANT PROJECTS

Anomaly Detection with Un/Self Supervised techniques

- Developed AD models using PatchCore, Autoencoders, CNNs, and Transformers with PyTorch.

Millionaire Game Solver (LLM-based)

- Engineered an Agentic RAG system that dynamically queries the web to fetch live context, combining Vector DBs, Judge/Reasoner models, and CoT for verified, hallucination-free answers

Finance Tracker

- Developed a full-stack personal finance platform leveraging integrated AI models to analyze portfolio allocation, track spending patterns, and generate automated wealth insights.

EDUCATION

MSc Artificial Intelligence | Politecnico di Milano **September 2025 - Present**

Advanced Deep Learning, Natural Language Processing, Reinforcement Learning, Artificial Intelligence, Robotics, Model Identification & Data Analysis

Bachelor of Computer Engineering | Università degli Studi di Bergamo **September 2022 - July 2025**

Diploma in Computer Science | IIS Jean Monnet **2017 - 2022**

LANGUAGES

- Italian (Native)
- English (Fluent)

AVAILABILITY & MOBILITY

- Available for hybrid/remote work
- Open to relocation (EU / Worldwide)