

Roberto Vicario

Software Engineer

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Experience

Software Engineer

Motus ml

10/2024 – Present
Milan, Italy

- I developed software specifically tailored for **Engineering** applications, gaining expertise in advanced development to address complex **Data-driven** challenges through **Streaming Machine Learning**.
- For many projects, I was responsible for improving legacy applications. This involved everything from **Full-stack** enhancements to redesigning **API** structures and endpoints.
- *Startup* life made me a **One-man-army**, someone able to try to do anything, or whatever is needed. It's one of the most valuable skills I gained, the major driver of my growth.

Python JavaScript Bootstrap Flask Git Docker MySQL PostgreSQL Pandas

Data Scientist Intern

University of Insubria, DiSTA Department

10/2023 – 01/2024
Varese, Italy

- Conducted a **Machine Learning** research project on **Stress Detection** using **HRV** data, under the supervision of Silvia Corchs, PhD. We implemented a **Multiclass Classification** pipeline integrating **Ensemble Methods**, with strong emphasis on **Overfitting Prevention**.
- The project served as the foundation for my **Experimental Thesis**, and the related Kaggle Notebook gained recognition by community with multiple forks.

Python Pandas scikit-learn Data Analysis Machine Learning

Education

MSc in Computer Science

University of Insubria

10/2024 – Ongoing
Varese, Italy

- *Average Grade:* 25/30, *CFU:* 27/120
- *Projects:* Machine Learning, Data Visualization, Data Security

BSc in Computer Science

University of Insubria

10/2020 – 02/2024
Varese, Italy

- *Grade:* 91/110
- *Thesis:* Apply Machine Learning for Stress Detection in Office Work Environments

Skills

Java C/C++ Python R JavaScript PHP HTML/CSS Bootstrap Figma Spring
Flask Linux Bash Git Docker Kubernetes AWS NumPy Pandas Seaborn
Matplotlib scikit-learn TensorFlow

	Listening	Reading	Writing	Speaking
Italian	C2	C2	C2	C2
English	C1	C1	C1	C1
French	B2	B2	B1	B1
Spanish	A2	A2	A2	A2
German	A1	A1	A1	A1

Technical Experiences

CyberChallenge.IT

02/2025 – 06/2025

Cybersecurity National Lab

Varese, Italy

- Admitted to **Italian Training** program as one of the best **U24 Ethical Hackers** (840 spots nationwide).
- The training featured hands-on challenges in **Cryptography**, **Penetration Testing**, **Network Sniffing**, **Web Vulnerabilities**, **Code Injection**, **Binary Exploitation**, and **Intelligence Operations**.

C/C++ Python JavaScript PHP pwntools Wireshark SQLi XSS ngrok Ghidra

Exchange Semester

02/2024 – 08/2024

University of Applied Sciences and Arts of Southern Switzerland

Lugano, Switzerland

- After completing my Bachelor's Degree, I attended the first semester of the Swiss MSE.
- Gained hands-on experience with real-world applications by focusing on **DevOps** methodologies and related technologies. Deepened my knowledge in **Machine Learning**, with a particular emphasis on **LLMs**, through the **Deep Learning** course I attended at ZHAW in Zurich.
- Semester Project: C++ Consistent Hashing Benchmark Tool

DevOps Cloud Computing Deep Learning LLMs

Open Source Contributions

GitHub, HuggingFace, and Kaggle

- Coding is also a hobby. Check out the following projects, which I consider my best work.
- Projects: 2UML, Akademios

Project Notebook Learning Research

Certifications and Licenses

CyberChallenge.IT

05/2025

Cybersecurity National Lab (CINI) · CCIT25

Cybersecurity Attack and Defense Fundamentals

09/2023

EC-Council · V7HDTZUQHYVC