Roberto Vicario

Software Engineer

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Website · LinkedIn · GitHub



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: 21/120
- Projects: Machine Learning, Data Visualization, Data Security

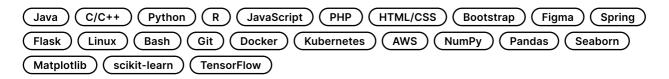
BSc in Computer Science

University of Insubria

10/2020 - 02/2024 Varese, Italy

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

Skills



	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

Cybersecurity National Lab

02/2025 - 06/2025 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

University of Applied Sciences and Arts of Southern Switzerland

02/2024 - 08/2024 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 <u>DevOps</u> methodologies and related technologies. Deepened my knowledge in <u>Machine Learning</u>, with a particular emphasis on <u>LLMs</u>, through the <u>Deep Learning</u> course I attended at <u>ZHAW</u> in Zurich.
- Semester Project: <u>C++ Consistent Hashing Benchmark Tool</u>

DevOps Cloud Computing Deep Learning LLMs

Open Source Contributions

GitHub, HuggingFace, Kaggle, etc.

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

Project Notebook Learning Research

Certifications and Licenses

DevOps on AWS 09/2024

AWS · FOMIHGOTDH02

Cybersecurity Attack and Defense Fundamentals

EC-Council · V7HDTZUQHYVC

09/2023