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: <u>Machine Learning</u>, <u>Data Visualization</u>, <u>Data Security</u>

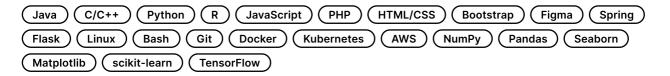
BSc in Computer Science

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