Roberto Vicario

Software Engineer

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Website · *LinkedIn* · *GitHub*

Experience

Software Engineer   10/2024 – Present
Motus ml   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   10/2023 – 01/2024
University of Insubria, DiSTA Department   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   10/2024 – Ongoing
University of Insubria   Varese, Italy

- *Average Grade*: 25/30, *CFU*: 39/120
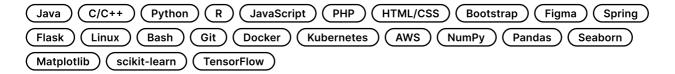- *Projects*: Machine Learning, Data Visualization, Data Security

BSc in Computer Science   10/2020 – 02/2024
University of Insubria   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, Akademos*

`Project` `Notebook` `Learning` `Research`

Certifications and Licenses

CyberChallenge.IT   06/2025
Cybersecurity National Lab (CINI) · CCIT25

Cybersecurity Attack and Defense Fundamentals   09/2023
EC-Council · V7HDTZUQHYVC