



Massimo Fedrigo

Software Engineer & Computer Scientist

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Software Engineer with 3 years of freelance experience in backend and frontend development for web and mobile applications. Focused on REST API design, integration with relational databases, and code quality in Agile environments. Computer Science graduate currently enrolled in a Master's degree in Computational Mathematics & Modelling; developing personal projects on algorithms, machine learning, and application security.

Key Skills

Main Languages	PHP, Java, Python, JavaScript/TypeScript, C/C++, C#, Dart
Backend & API	Symfony, Node.js, Django, Flask, .NET, REST API
Frontend	VUE.js, React, Flutter, Bootstrap, Tailwind
Databases	PostgreSQL, MySQL, SQLite
DevOps	Docker, GitHub Actions
Networks & Protocols	HTTP/HTTPS, TLS, SSH, FTP/FTPS, SMB/Samba
Security & Privacy	GDPR compliance guidelines and Two-Factor Authentication (2FA)
Pentesting	Nmap, Burp Suite, Metasploit, Wireshark, OWASP WSTG, Proxychains
Data & ML	NumPy, pandas, scikit-learn, data pipelines, feature engineering
Tools	Git, Visual Studio, Eclipse, IntelliJ, PyCharm, Android Studio, VS Code
OS	Ubuntu, Kali Linux, MacOS, Windows, Android, iOS
Virtualization	VMware, VirtualBox, Parallels
Soft Skills	Communication, mentoring, teamwork, problem solving, ownership
Work Practices	Pair programming, testing, debugging, reporting, documentation writing
Markup Languages	HTML, XML, \LaTeX , Markdown, CSS
Other Languages	VBA, Matlab, R, Haskell, Assembly x86, Scheme

Professional Experience

Full Stack Web & Mobile Developer - Freelance

2023 – Present

rscoaching.it, *overdiet.com* & *stradellafitness.com* - Remote

Web and mobile platform dedicated to dietitians for automated and intelligent generation of meal plans for their clients.

- Design and development from scratch of a cross-platform mobile application. Stack: **Flutter** (Frontend), **Node.js** (Backend), and **MySQL** (Database).
- Development and maintenance of a web application for automated meal plan generation. Stack: **VUE.js** (Frontend) and **Symfony** (Backend).
- Refactoring of legacy technologies: from Vanilla JavaScript to **VUE.js**; from native PHP to **Symfony**.
- Design and implementation of **REST APIs**, integrated with web and mobile frontends.
- Applied OOP principles and MVC patterns in backend design (Symfony/Node.js).
- Improved accuracy of numerical methods for diet calculation via heuristics.
- Writing automated tests (unit and/or integration) to ensure core feature stability.
- Collaboration with product managers and designers in Agile environments.

Static Website Developer - Freelance

2020 – Present

Remote

Development of static showcase/portfolio websites for freelancers, shops, restaurants, and individuals. Stack: **CSS**, **Tailwind**, **Jinja2**, and **JavaScript**.

Private Tutor - Freelance

2017 – Present

On-site / Remote

Providing Math, Physics, and Computer Science tutoring to high school and university students.

Relevant Technical Projects

Synthetic Pages

2025 – Present

Stack: *Python, Jinja2, LLM*

Static website generator utilizing LLM prompting, automated through API calls. Website topics are automatically selected via *Google Trends* analysis.

Cyphermesh

2024 – Present

Stack: *Python, Flask, C*

Decentralized peer-to-peer network for sharing and verifying cyber threat intelligence. Each node can receive, sign, share, and verify security events, dynamically updating peer reputation.

algowiki.dev

2024 – Online

Stack: *Markdown, Mkdocs*

Educational website cataloging and explaining algorithms from scientific literature, providing intuitive descriptions, complexity analysis, and proofs of correctness.

Algostudio

2024 – Present

Stack: *C++*

Framework designed to test the correctness and calculate the empirical complexity of input algorithms.

Education

M.Sc. in Computational Mathematics & Modelling

2025 – Present

University of Trieste

Degree program focused on optimization, algorithms, and Machine Learning.

B.Sc. in Computer Science

2021 – 2025

University of Udine

Thesis: *A randomized algorithm for Singular Value Decomposition (SVD) calculation.*

Certifications & Competitions

Currently studying for the *OSCP* (Offensive Security Certified Professional) certification. I practice with *capture the flag* challenges on the *HackTheBox* platform. This preparation has enhanced my knowledge of networking, operating systems, and web application security.

Participating in *competitive programming* challenges on Codeforces.

Languages

Italian

Native

English

B2 (Professional working proficiency)

Interests

I enjoy reading, drawing, and practicing sports (calisthenics). I have a strong interest in the philosophical and ethical aspects of Computer Science. I have built personal projects using Arduino and Raspberry Pi and occasionally contribute to open source projects. Active participant in developer communities (meetups, conferences, Telegram groups).

Data Processing Authorization

I authorize the processing of my personal data pursuant to the EU Regulation 2016/679 (GDPR).

Cordenons (PN), December 2, 2025