



# Massimo Fedrigo

Software Engineer & Computer Scientist

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.

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## 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, L <sup>A</sup> T <sub>E</sub> X, 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

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|---|----------------|
| <b>Synthetic Pages</b>  | 2025 – Present |
| Stack: <i>Python, Jinja2, LLM</i>   |                |
| Static website generator utilizing LLM prompting, automated through API calls. Website topics are automatically selected via <i>Google Trends</i> analysis.                                   |                |
| <b>Cyphermesh</b>   | 2024 – Present |
| Stack: <i>Python, Flask, C</i>  |                |
| 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. |                |
| <b>algowiki.dev</b>   | 2024 – Online  |
| Stack: <i>Markdown, Mkdocs</i>  |                |
| Educational website cataloging and explaining algorithms from scientific literature, providing intuitive descriptions, complexity analysis, and proofs of correctness.                        |                |
| <b>Algostudio</b>   | 2024 – Present |
| Stack: <i>C++</i>   |                |
| Framework designed to test the correctness and calculate the empirical complexity of input algorithms.  |                |

## Education

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|---|----------------|
| <b>M.Sc. in Computational Mathematics &amp; Modelling</b>                                 | 2025 – Present |
| <i>University of Trieste</i>  |                |
| Degree program focused on optimization, algorithms, and Machine Learning.                 |                |
| <b>B.Sc. in Computer Science</b>  | 2021 – 2025    |
| <i>University of Udine</i>  |                |
| Thesis: <i>A randomized algorithm for Singular Value Decomposition (SVD) calculation.</i> |                |

## Certifications & Competitions

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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

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|         |                                       |
|---------|---------------------------------------|
| Italian | Native                                |
| English | B2 (Professional working proficiency) |

## Interests

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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

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