



## Pietro Costanzi Fantini

**Date of birth:** 23/12/2002


**Place of birth:** Rome, Italy

**Nationality:** Italian

**Gender:** Male

## CONTACT

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 <https://github.com/Nabster101>



europass

## ABOUT ME

My name is Pietro Costanzi Fantini and I'm 22. I'm young, dynamic and resourceful teen open to any kind of life/working experience and eager to prove his worth.

## WORK EXPERIENCE

### ITIS ENRICO FERMI Rome, Italy

**Address** ITIS Enrico Fermi – Via Trionfale 8737 – 00135 Roma, Rome, Italy

#### Software developer

03/2021 – 05/2021

Software program for **managing the school timetable** for all classes of the institute (50 classes with approximately 1500 students) and for the individual timetables of each teacher (approximately 150 teachers).

### Fibernet srl Rome, Italy

**Address** Fibernet SRL Roma – Via Degli Olmetti, 18 – 00060 Formello, Roma, Rome, Italy

#### Internship - Software developer

11/2019 – 03/2020

This was an internship in which I was able to:

- Created a **temperature measurement system to monitor the behavior of fiber optic cables** at various temperatures.
- Developed **functional and technical documentation** for the application system.

### Junior Achievement Italia (JA Italia) Rome, Italy

#### Digital media designer

02/2020 – 06/2020

Team member for the presentation of the project **Trashbot**.

### Softlab SPA Rome, Italy

#### IT Specialist | National Operational Program (PON)

01/2019 – 06/2019

A project focused on the cultural heritage and tourism enhancement of the San Salvatore Abbey in Rieti.

##### • Key Responsibilities:

- Managed the IT installation and setup of an **interactive historical-tourist path** designed to enhance the Abbey and surrounding territory.
- Developed **audiovisual support materials** in Italian and handled their complete translation into English.

### Confcooperative Rome, Italy

#### Confcooperative Regional Hackathon

03/2021

Achieved an honorable mention in a regional competition among 20 professional teams. The event focused on modernizing business management processes, marketing, and fundraising.

##### • Project Role & Achievements:

- Designed and developed a software application to modernize the management processes of a cooperative pharmacy chain.

- Conducted market research to identify the target audience and consumer specifications, which directly informed the application's features.
- Created and delivered a final presentation aimed at fundraising and securing investment.
- The application was successfully presented to and evaluated by a board of IT experts.

## **Federazione Italiana di Atletica Leggera** Rome, Italy

### **FIDAL "RunHack" National Hackathon**

01/2021

Achieved an honorable mention in a highly competitive national event against 30 professional teams. The hackathon's mission was to innovate in the outdoor sports sector.

#### • **Project Role & Achievements:**

- Designed and developed a mobile application to encourage outdoor running and social fitness in a post-pandemic environment.
- Implemented a core gamification system to motivate users, track progress, and encourage them to connect with other runners for group activities.
- The concept and application were successfully pitched to and evaluated by a board of IT and sports industry experts.

## **Pulsee** Rome, Italy

### **Pulsee National Hackathon (Milan Digital Week) | 2nd Place Winner**

11/2020

Secured 2nd place out of 30 professional teams in a national competition focused on developing technology to promote carbon footprint awareness.

#### • **Project Role & Achievements:**

- Conceptualized, designed, and developed a mobile application to help users monitor, understand, and reduce their personal carbon footprint.
- Engineered a core feature for real-time tracking and updating of an individual's environmental impact based on their daily activities.
- Integrated a recommendation engine to provide users with personalized, sustainable alternatives and practical solutions to lower their footprint.
- The project was successfully pitched and awarded second place by a judging panel of technology and sustainability experts.

## **Massachusetts Institute of Technology (MIT), Aurora Flight Sciences, Innovation Learning Center** Rome, Italy

### **National Finalist | Zero Robotics Competition (MIT)**

03/2019 – 06/2019

Achieved 9th place out of 20 teams in the national finals of a prestigious aerospace competition for youth teams. The challenge focused on simulating satellite docking procedures for real-world space applications.

#### • **Project Role & Achievements:**

- Collaborated as a key team member to develop a simulation modeling parameterized satellite docking scenarios in a zero-gravity environment.
- Programmed algorithms to navigate the simulated satellite, overcome obstacles, and optimize maneuvers based on ideal physical and temporal conditions.
- Analyzed simulation data to refine docking strategies and improve performance against the competition's set parameters.

## **Cybersecurity National Lab, Italian Ministry of Defense, Office of the Prime Minister** Rome, Italy

### **National Finalist | CyberChallenge.IT**

03/2020 – 06/2020

Selected for a highly competitive national cybersecurity training program, culminating in a final 24-hour team competition. This government-sponsored initiative aims to identify and train Italy's future cybersecurity experts.

#### • **Training & Development:**

- Completed an intensive training course delivered by university professors and security experts, covering domains such as web security, cryptography, network security, and reverse engineering.

#### • **National Competition:**

- Competed as a team member in the final 24-hour, "Capture The Flag" (CTF) style national competition.
- Collaborated on solving a series of complex cybersecurity challenges under time pressure, placing 14th nationally among the 20 qualifying university teams.

## ● **Young Business Talents** Rome, Italy

### **Team Leader | Young Business Talents (Business Simulation Competition)**

02/2021 – 06/2021

Led a team in a national business simulation competition, making strategic decisions across all core functions to run a virtual company in a competitive market.

#### • **Key Responsibilities & Achievements:**

- Directed market research to select a viable product and define the company's overall business strategy.
- Managed the company's complete financial lifecycle, including capital allocation, investment strategy, and financial planning.
- Developed and executed integrated strategies for marketing, production, and distribution to maximize market share and profitability.
- Analyzed performance data to make informed, data-driven decisions and adapt the company's strategy in a dynamic simulated environment.

## EDUCATION AND TRAINING

**10/2024 – CURRENT** Rome, Italy

### ● **Master of Science in Computer Science** Sapienza University of Rome

A second-cycle degree program focused on advanced topics in computer science with a core emphasis on designing, developing, and securing complex IT systems and networks.

**Relevant Coursework:** Network Security, Cryptography, Systems and Network Administration, Distributed Systems, Ethical Hacking, Secure Coding, Malware Analysis, Operating Systems.

**Website** <https://www.uniroma1.it/it/> | **Level in EQF** EQF level 7

**09/2021 – 10/2024** Rome, Italy

### ● **Bachelor of Science in Computer Engineering** Sapienza University of Rome

A first-cycle degree program providing a strong foundation in computer science, electronics, and automation engineering principles.

**Key Subjects:** Algorithms and Data Structures, Object-Oriented Programming (Java/C++), Computer Architecture, Operating Systems, Computer Networks, Databases, Digital Electronics, Calculus, Linear Algebra.

**Final Project:** Vulnerabilità web e attacchi informatici: Indagine sulle Tecniche di Exploitation

**Website** <https://www.uniroma1.it/it/> | **Field of study** Information and Communication Technologies (ICTs) not further defined , Software and applications development and analysis , Engineering, manufacturing and construction |

**Final grade** 101/110 | **Level in EQF** EQF level 6 | **Thesis** Vulnerabilità web e attacchi informatici: Indagine sulle Tecniche di Exploitation

**09/2016 – 06/2021** Rome, Italy

### ● **Technical High School Diploma in Computer Science** I.T.I.S. Enrico Fermi

A five-year specialized technical program focused on developing core competencies in programming, systems architecture, and networking.

**Key Subjects:** Programming (C++, Java), Algorithms and Data Structures, Database Management, Computer Systems and Architecture, Networking, Web Development.

**Website** <https://www.itisfermi.edu.it/> | **Field of study** Software and applications development and analysis , Information and Communication Technologies (ICTs) not further defined | **Final grade** 100 with Honors (cum laude) | **Level in EQF** EQF level 5

09/2003 – 06/2016 Rome, Italy

**Primary and lower-secondary education (grades 1-8)** Saint Francis International School

Bilingual / Native Proficiency in English

Website <https://www.stfrancis-school.it/> | Level in EQF EQF level 2

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**Other language(s):**

English

Listening C2

Spoken production C2

Reading C2

Spoken interaction C2

Writing C2

Spanish

Listening B1

Spoken production B1

Reading B1

Spoken interaction B1

Writing B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## SKILLS

work as a team | SQL | use object-oriented programming | debug software | use software libraries | web programming | analyse software specifications | think analytically | JavaScript | MySQL | Cisco | CSS | Sass | Cybers ecurity Essentials | CISCO | Udemy - The Web Developer Bootcamp | HTML5, CSS3 and Sass | Python (computer programming) | PCAP - Programming Essentials in Python | CISCO CCNA : Introduction to Networks (ITN) | Cisco It Essentials | Certificate by University of Cambridge

## DRIVING LICENCE

**Driving Licence:** AM

**Driving Licence:** B

## PROJECTS

**11/2024 – 01/2025**

**Personal Portfolio**

Link <https://www.pietrocf.ovh/>

**05/2024 – 06/2024**

**Rizik0**

Along with a couple of colleagues at my University, we made an online version of the popular game of Risk. It features a backend server made with Python to keep track of all the matches and statistics for each player, along with an intuitive frontend desing to guarantee a fluid and intuitive gaming experience.

Link <https://rizik0.ovh/>

**04/2024 – 06/2024**

### **DunkZone**

With a team of colleagues at my University, we developed an online utility portal with the use of the official NBA API where anyone can keep track of all upcoming and past matches of their favorite NBA team, along with interesting statistics and other features.

Link <https://github.com/dunkz0ne>

**09/2024 – 10/2024**

### **CyberPlayground**

For my Bachelor's degree I made a web-based playground designed to simulate and demonstrate various common web application security vulnerabilities. It provides an interactive environment where users can explore real-world security issues such as SQL Injection (SQLi), Cross-Site Request Forgery (CSRF) and Cross-Site Scripting (XSS).

Link <https://github.com/Nabster101/CyberPlayground>

**02/2024 – 03/2024**

### **File System FAT**

This is my approach on making a fully fledged FAT system in C with the added feature of being persistent, meaning it can be used on any PC while keeping track of all the data it has previously saved. It includes useful features such as a write-on-file function, a read-from-file, a make-directory command and others.

Link <https://github.com/Nabster101/File-System-FAT>

## **VOLUNTEERING**

**10/2009 – CURRENT** Rome

### **AGESCI (Italian Catholic Guides and Scouts Association)**

**04/2024 – CURRENT** Rome

### **CRI (Croce Rossa Italiana - Italian Red Cross) volunteer**

**09/2016 – 07/2017** Rome

### **Boy Scouts of America (BSA)**