



# Francesco Penasa

SOLUTION ARCHITECT · SERVICE AND SOFTWARE ARCHITECTURES - CYBERSECURITY - BIOINFORMATICS

Via di val Comasen, 2, Comasine di Peio, Trento, 38024, Italy

☎ (+39) 348-5794807 | ✉ francesco.penasa.job@gmail.com | 🏠 FrancescoPenasa.github.io | 📱 FrancescoPenasa |

🌐 Francesco Penasa | Bioinformatics - Cybersecurity - Clean Code - Agile development

*"Enjoy the little detours to the fullest."*

## Education

### UNITN (The University of Trento, DISI)

Trento, Italy

MASTER IN COMPUTER SCIENCE - SERVICE AND SOFTWARE ARCHITECTURES / BIOINFORMATICS: 104/110

Sep. 2019 - Dec. 2021

- Master's thesis: **Sedute Online**  
*Revision of a Voting System Application through Cross-platform mobile framework with a focus on Security and Performance.*
- Area Bioinformatics: Laboratory of Biological Data Mining, Algorithms for Bioinformatics and Bioinformatics Resources
- Area Software and Service Architectures: Formal methods, Security Testing, Autonomous software agents and Multimedia data security
- Area Data Science: Machine learning and Deep learning
- Laboratory of Computer Science Education

### UNITN (The University of Trento, DISI)

Trento, Italy

B.S. IN COMPUTER SCIENCE: 99/110

Sep. 2016 - Sep. 2019

- Bachelor's thesis: **BPMN redesign through planning**  
*Dynamic failure recovery, optimization and alternate path creation through a BPMN and PDDL integration.*

### ITCG Pilati (ITET C.A. Pilati Cles)

Cles, Italy

SECONDARY EDUCATION - SURVEYOR

2011 - 2014

- CAD 2D certificate. 90/100

## Skills

**DevOps** AWS Solution Architect, Docker, Travis, Heroku, Swagger, Mobile Deployment

**Back-end** Express, Django, REST API, LAMP, Web Service, Flask

**Front-end** Flutter, VueJS, HTML5, JQuery, JavaFX

**Programming** Node.js, Python, Java, C, NuXMV, C++, SML, Dart, R, MySQL, MATLAB, Php

**Misc.** Optical Fiber join, Raspberry Pi, Arduino, LaTeX, Git, AutoCAD, Telegram Bot

**Languages** Italian, English, German, Japanese

## Experience

### Cluster Reply

Milan, Italy

CONSULTANT

May. 2023 - Present

- Everything that matters.
- Designed and provisioned the entire infrastructure on the AWS cloud to meet security compliance and acquire a business license for financial services in Korea.
- Continuously improved the infrastructure architecture since launching the service. (currently 3.6 million users)

### Alpinformatica

Malè, TN 38020, Italy

SOFTWARE ENGINEER

Jan. 2022 - May. 2023

- Mobile Development: Flutter framework, analysis, development, testing and deployment of many mobile applications on Google Play Store, Apple Appstore, Huawei Store
- ERP, CRM and REST API development: PHP in LAMP environment on AWS resources
- AWS Serverless development: telegram bot, GPS analysis and computation, authentication services in Python and NodeJS
- Internal utility tool development and research: personalized db migration tool, pdf modifier and various utility tools in Python
- SPID and CIE integration to mobile applications; SPID and CIE company accreditation
- **Soft Skill developed:** Functional communication

### Alpinformatica

Malè, TN 38020, Italy

INTERNSHIP IN SOFTWARE DEVELOPMENT DEPARTMENT

Aug. 2021 - Dec. 2021

- Development of the thesis project, the voting system: Sedute Online
- SPID integration to mobile applications and SPID company accreditation

## Funivie Madonna di Campiglio

INTERNSHIP IN IT DEPARTMENT

- Web-app development, web-app testing, code refactoring, integration of BancaIntesa's API
- Optical fiber management, tech assistance, mobile Operative Systems compilation
- PHP 7, MySQL, Unicredit API, Android 5, Optical-fiber join, FTP, Excel

### MMape

TECH SUPPORT

- Paypal API, Tech Support, Networking

### MMape

MUSEUM GUIDE

- **Soft Skill developed:** public speaking, team-working and time-management

### Studio Tecnico Fantelli

SURVEYOR

- CAD 2D, CAD 3D and Google Sketchup for blueprints developments.

### Progetto Giovani - APPM

CIVIL SERVICE - EDUCATOR AND EVENTS ORGANIZER

- **Soft Skill developed:** problem-solving, communication and team-working.

Madonna di Campiglio, TN 38086,  
Italy

Jun. 2019 - Aug. 2019

Croviana, TN 38027, Italy

Sep. 2016 - May. 2023

Croviana, TN 38027, Italy

Apr. 2016 - Sep. 2016

Dimaro, TN 38025, Italy

Apr. 2016 - Sep. 2016

Dimaro, TN 38025, Italy

Jun. 2015 - Jun. 2016

## Referenze

### Maurizio Varese

BUSINESS UNIT MANAGER

- m.varese@reply.it

CLUSTER REPLY S.R.L.

2023

### Giovanni Sonna

GENERAL MANAGER

- g.sonna@alpinformatica.com

Alpinformatica di Giovanni Sonna -  
Malè

2021-2023

### Michele Bezzi

COORDINATORE

- pgvsole@appm.it

APPM

2015

### ing. Nicola Mosca

SYSTEM ADMINISTRATOR

- nicola.mosca@funiviecampiglio.it

Funivie Madonna di Campiglio

2019

### Anna Benedetti

GENERAL MANAGER

- annabenedetti88@gmail.com

MMape

2016