

# Francesco Penasa

CS STUDENT · SERVICE AND SOFTWARE ARCHITECTURES - CYBER SECURITY - BIOINFORMATICS

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## 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.*
- Laboratory of Computer Science Education
- 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

### 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

### Programming Languages

Dart, Python3, R, Java, NuXMV, C, C++, PHP, SML, JavaScript, MATLAB

### Web Development & Frameworks

HTML5, JQuery, Flutter, Flask, JavaEE, NodeJS, Test:Travis, Swagger, Heroku, REST API, Web Service

### Miscellaneous

AWS service architect, MySQL Server, Optical Fiber join, Git, AutoCAD, LaTeX

### Languages

English, Italian

## Experience

### Alpinformatica

Malè, TN 38020, Italy

POST-GRADUATE INTERNSHIP IN SOFTWARE DEVELOPMENT DEPARTMENT

Jan. 2022 - PRESENT

- Mobile Development: Flutter framework, built and managed the application "Collegio Maestri di Sci Trentino"
- Development of management platforms thorough PHP and JQuery
- AWS Certified Cloud Practitioner, AWS Solution Architect
- Research and usage of different Design Patterns

### 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

Madonna di Campiglio, TN 38086, Italy

INTERNSHIP IN IT DEPARTMENT

Jun. 2019 - Aug. 2019

- 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, GNU-Linux, FTP, Excel

### MMape

Croviana, TN 38027, Italy

MUSEUM GUIDE

Apr. 2016 - Sep. 2016

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

### Studio Tecnico Fantelli

Dimaro, TN 38025, Italy

SURVEYOR

Apr. 2016 - Sep. 2016

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

### Progetto Giovani - APPM

Dimaro, TN 38025, Italy

CIVIL SERVICE - EDUCATOR AND EVENTS ORGANIZER

Jun. 2015 - Jun. 2016

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

## Extracurricular Activity

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### DailyQuest.it (Gaming - News and Insights)

EDITOR

- Editor for Insight articles and step-by-step guides

Italy  
Nov. 2018 - PRESENT

### Battlecraft.it (Gaming - News and Insights)

EDITOR

- Editor for Insight articles and step-by-step guides

Italy  
June 2015 - Nov 2018

### CoderDojo Trento (community-based computer programming clubs for young people)

VOLUNTEER

- Computer Science Education for children

Trento, Italy  
Oct. 2017 - PRESENT

### Progetto Giovani - APPM (Music and boardgames laboratories)

VOLUNTEER

- Education and Social cohesion for teenagers

Dimaro, Italy  
Dec. 2013 - 2015

## Certifications

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### INTERNATIONAL

- 2022 **AWS Certificate**, Certified Cloud Practitioner
- 2022 **AWS Certificate**, Solution Architect
- 2021 **Google Hashcode 2021**, 2933rd
- 2022 **Google Hashcode 2022**, Google Hashcode 2022

## Referenze

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### Giovanni Sonna

GENERAL MANAGER

- g.sonna@alpinformatica.com

Alpinformatica di Giovanni Sonna -  
Malè  
2021-2022

### 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