Francesco **Penasa**

SOLUTION ARCHITECT · SERVICE AND SOFTWARE ARCHITECTURES - CYBERSECURITY - BIOINFORMATICS

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in 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*

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

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 join, FTP, Excel

MMape

Croviana, TN 38027, Italy

Tech Support

Sep. 2016 - May. 2023

- Paypal API, Tech Support, Networking

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.

Referenze

Maurizio Varese

CLUSTER REPLY S.R.L.

Business Unit Manager

2023

- m.varese@reply.it

Giovanni Sonna

Alpinformatica di Giovanni Sonna - Malè

General Manager

2021-2023

- g.sonna@alpinformatica.com

Michele Bezzi

APPM

Coordinatore

2015

- pgvsole@appm.it

ing. Nicola Mosca

Funivie Madonna di Campiglio

System Administrator

2019

- nicola.mosca@funiviecampiglio.it

Anna Benedetti

MMape

General Manager

2016

- annabenedetti88@gmail.com