Francesco **Penasa**

SOLUTION ARCHITECT · SERVICE AND SOFTWARE ARCHITECTURES - CYBERSECURITY - BIOINFORMATICS

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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, Azure OpenAI Service, Docker, Travis, Heroku, Swagger, Mobile App Deployment
Back-end	Express, Django, REST API, LAMP, Web Service, Flask, MySQL
Front-end	Flutter, React, Next.js, HTML5, JQuery, JavaFX
Programming	Python, Node.js, Dart, PHP, C#, Java, NuXMV, C, C++, SML, R, MATLAB
Misc.	Optical Fiber join, Raspberry Pi, Arduino, LaTeX, Git, AutoCAD, Telegram Bot
Languages	Italian, English, German

Experience

Reply, Cluster Clash IT   *Milan, MI 20152, Italy*

CONSULTANT   *May 2023 - PRESENT*

- Generative AI: Prompt Engineering, development of Generative AI Solutions through Azure OpenAI API and SDK, Flask and React
- Development in Low Code Power Platform
- Backend: in Python (Flask) and .NET (EF Core, Dapperer, ASP.NET) with SQL db interaction
- Frontend: React and Redux

Alpinformatica   *Malè, TN 38020, Italy*

SOFTWARE ENGINEER   *Jan. 2022 - May. 2023*

- Main Mobile Developer: build, managment and deployment (iOS, Android and Huawei) of applications in Flutter
- 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
- Research and optimization of company DevOps Pipeline
- 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

University of Trento

Trento, Italy

Part-time student work in IT department

2018

- Internal tool development

MMape

Croviana, TN 38027, Italy

Tech Support

Sep. 2016 - PRESENT

- Paypal API, Tech Support, Networking, Wordpress development and assistance

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

DailyQuest.it (Gaming - News and Insights)

Italy

Editor

Nov. 2018 - PRESENT

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

Battlecraft.it (Gaming - News and Insights)

Italy

Editor

June 2015 - Nov 2018

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

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

Trento, Italy

Volunteer

Oct. 2017 - PRESENT

- Computer Science Education for children

Progetto Giovani - APPM (Music and boardgames laboratories)

Dimaro, Italy

Volunteer

Dec. 2013 - 2015

- Education and Social cohesion for teenagers

Certifications and Challenges

Sep. 2023 **Develop Generative AI Solutions with Azure OpenAI Service MOC AI-050**, Pipeline

Aug. 2023 **Azure AI-050T00**, Workshop at Microsoft Italia — *Milan, Italy*

Jul. 2023 **Azure PL-900: Microsoft Power Platform Fundamentals**, — *Online*

2022 **AWS Certificate**, Certified Cloud Practitioner

2022 **AWS Certificate**, Solution Architect

2021 **Google Hashcode 2021**, 2933rd

Referenze

Maurizio Varese

Reply Srl

Business Unit Manager

2023 - Present

- m.varese@reply.it

Giovanni Sonna

Alpinformatica di Giovanni Sonna - Malè

CEO

2021-2023

- g.sonna@alpinformatica.com

Michele Bezzi

Coordinator
• 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 - Present