Francesco **Penasa**

SOLUTION ARCHITECT · SERVICE AND SOFTWARE ARCHITECTURES - CYBERSECURITY - BIOINFORMATICS

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Francesco Penasa

"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** (Flutter and PHP)
  Revision of a Voting System Application through Cross-platform mobile framework with a focus on Security and Performance.
- Area Software and Service Architectures: Formal methods, Security Testing, Autonomous software agents and Multimedia data security
- Area Data Science: Machine learning and Deep learning
- Area Bioinformatics: Laboratory of Biological Data Mining, Algorithms for Bioinformatics and Bioinformatics Resources
- 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** (Java)
  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, Azure, Docker, Travis, Heroku, Swagger, Mobile App Deployment
Back-end	ExpressJS, Django, Flask, LAMP Stack, Java Spring, MySQL, PostgreSQL
Front-end	Flutter, React, HTMX, HTML, JQuery, Tailwind CSS, Bootstrap CSS, JavaFX
Programming	Python, Node.js, Dart, PHP, Java, NuXMV, C, SML, R, MATLAB
Misc.	Optical Fiber join, Raspberry Pi, Arduino, LaTeX, Git, AutoCAD, Telegram Bot
Languages	Italian, English C1, German B1

Experience

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

CONSULTANT *May 2023 - PRESENT*

- Generative AI: Prompt Engineering and development of Generative AI Solutions with Azure OpenAI API and SDK, Flask and React
- Microsoft Power Platform Solutions: Development and Deployment of Dataverse, Power Apps, Power Automate and Power BI solutions
- Backend: Python (Flask) and .NET (EF Core, Dapperer, ASP.NET) with SQL db interaction
- Frontend: React and Redux
- DevOps: Azure DevOps, Docker, Kubernetes, Azure Functions, Azure Logic Apps
- Scrum and Agile methodologies

Alpinformatica *Malè, TN 38020, Italy*

SOFTWARE ENGINEER *Jan. 2022 - May. 2023*

- Main Mobile Developer: build, managment and deployment (Windows, iOS, Android and Huawei) of Flutter applications
- ERP 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 for ticketing system, 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 *APPM*

Coordinator *2015*

- pgvsole@appm.it

ing. Nicola Mosca *Funivie Madonna di Campiglio*

System Administrator *2019*

- nicola.mosca@funiviecampiglio.it

Anna Benedetti
<small>General Manager</small>

<small>_MMape_</small>
<small>_2016 - Present_</small>

- annabenedetti88@gmail.com

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