



Francesco Penasa

SOLUTION ARCHITECT · SERVICE AND SOFTWARE ARCHITECTURES - CYBERSECURITY - BIOINFORMATICS

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🌐 Francesco Penasa | Bioinformatics - Cybersecurity - Agile development

“Enjoy the little detours to the fullest.”

Istruzione

UNITN (The University of Trento, DISI)

Trento, Italia

LAUREA MAGISTRALE IN COMPUTER SCIENCE - SERVICE AND SOFTWARE ARCHITECTURES: 104/110

09/2019 - 12/2021

- Tesi: **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:** per l'insegnamento dell'informatica
- Area Bioinformatics: Laboratory of Biological Data Mining, Algorithms for Bioinformatics e Bioinformatics Resources
- Area Software and Service Architectures: Formal methods, Security Testing, Autonomous software agents e Multimedia data security
- Area Data Science: Machine learning e Deep learning

UNITN (The University of Trento, DISI)

Trento, Italia

LAUREA TRIENNALE IN INFORMATICA: 99/110

09/2016 - 09/2019

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

Skills

DevOps	Mobile App Deployment(App Store, Google Play, AppGallery), AWS Solution Architect, Azure OpenAI Service, Docker, Travis, Heroku
Back-end	LAMP, Express, Flask, Django, Swagger, Wagtail, REST API, Web Service, MySQL
Front-end	Flutter, React, HTML5, JQuery, Tailwind, Bootstrap
Programming	Dart, Python, PHP, Microsoft PowerApps, Node.js, C#, Java, NuXMV, C, C++, SML, R, MATLAB
Misc.	Stampa e disegno 3D, Raspberry Pi, Saldatore SMD, Arduino, AutoCAD, Fusion 360, Optical Fiber join, LaTeX, Git, Telegram Bot
Languages	Italiano, Inglese, Tedesco

Esperienza

Reply, Cluster Clash IT

Milano, MI 20152, Italia

CONSULTANT

05/2023 - PRESENT

- Generative AI: Prompt Engineering, sviluppo di soluzioni progetti con Generative AI tramite Azure OpenAI API/SDK, Flask e React
- Development in Microsoft Low Code Power Platform
- Backend: in Python (Flask) e .NET (EF Core, Dapperer, ASP.NET)
- Frontend: React

Alpinformatica

Malè, TN 38020, Italia

SOFTWARE ENGINEER

08/2021 - 05/2023

- Lead Mobile Developer: build, managment e deploy (iOS, Android and Huawei) di applicazioni Flutter
- ERP, CRM e REST API development: PHP in LAMP environment su AWS
- 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
- Development of the thesis project, the voting system: Sedute Online
- **Soft Skill developed:** comunicazione funzionale

Funivie Madonna di Campiglio

Madonna di Campiglio, TN 38086, Italia

TIROCINIO NEL REPARTO INFORMATICO

Jun. 2019 - Aug. 2019

- Sviluppo web app pagamento e prenotazione ticket, testing e integrazione API BancaIntesa
- Gestione e integrazione della rete interna in fibra ottica, assistenza tecnica interna, compilazione di sistemi operativi mobile

Insegnante privato

FREELANCER

- Insegnamento di matematica, fisica e informatica a studenti delle scuole medie e superiori
- Insegnamento di matematica e informatica a studenti universitari

Italia

2018 - PRESENT

MMape

GUIDA MUSEALE

- **Soft Skill sviluppate:** public speaking, team-working e time-management

Croviana, TN 38027, Italia

04/2016 - 09/2016

Progetto Giovani - APPM

SERVIZIO CIVILE - EDUCATORE

- assistenza e formazione durante i laboratori musicali
- **Soft Skill sviluppate:** problem-solving, comunicazione e team-working.

Dimaro, TN 38025, Italia

06/2015 - 06/2016

Volontariato

DailyQuest.it (Gaming - News e Approfondimenti)

REDATTORE

- Redattore articoli di approfondimento e guide

Italy

Nov. 2018 - PRESENT

Battlecraft.it (Gaming - News e Approfondimenti)

REDATTORE

- Redattore articoli di approfondimento e guide

Italy

June 2015 - Nov 2018

CoderDojo Trento

VOLONTARIO

- Informatica per bambini e ragazzi

Trento, Italy

10/2017 - 01/2024

Progetto Giovani - APPM (Music and boardgames laboratories)

VOLONTARIO

- Educatore volontario

Dimaro, Italy

12/2013 - 2015

Certificazioni e Eventi

12/2023 **Microsoft Certified: Power Platform Fundamentals**, Certification number: 161D8B-A5B4FO

Online

09/2023 **Spexx German CEFR Level A1**,

Online

09/2023 **Develop Generative AI Solutions with Azure OpenAI Service MOC AI-050**, Pipeline

08/2023 **Azure AI-050T00**, Workshop Microsoft Italia

Milan, Italy

2022 **AWS Certificate**, Certified Cloud Practitioner

2021 **Google Hashcode 2021**, 2933rd

Referenze

Giuseppe Guerra

BUSINESS UNIT MANAGER

- g.guerra@reply.it

Reply Srl

2023 - Present

Giovanni Sonna

CEO

- 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 - Present