



Francesco Penasa

SOLUTION ARCHITECT · SERVICE AND SOFTWARE ARCHITECTURES - CYBERSECURITY - BIOINFORMATICS

Via di val Comasen, 2, Comasine di Peio, Trento, 38024, Italy

☎ (+39) 348-5794807 | ✉ francesco.penasa.job@gmail.com | 🏠 FrancescoPenasa.github.io | 📱 FrancescoPenasa |
🌐 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

University of Trento

PROGETTO 150 ORE

- Sviluppo strumenti interni

Trento, Italia

2018

MMape

GUIDA MUSEALE

- **Soft Skill svilupate:** 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 svilupate:** 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