Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: dondi.fyi/p/cv_en

Online (React) version of this CV at: https://fdondi.github.io/cv-react/

Zugerstarsse 66, 8810 Horgen, ZH \square +41 76 456 50 32 ☑ francesco314@gmail.com in francesco-dondi □ Fdondi

Born 29/10/1990 Italian citizen, C permit Married, no children



9999

0000

90000

■ Who Lam

As a seasoned software developer, I bring a wealth of experience in developing robust software solutions. The post-Covid time has been hectic, but my diverse professional background gave me the experience to be immediately effective with all types of tools and processes. Now however I'm aiming at a stable position where I can grow long-term. I'm known among my peers and supervisors for being a reliable, intelligent, and friendly colleague, one who is always ready to take on responsibility and contribute to the team's success.

0000	\sim .	•
2020-current:	Startun	evneriences
ZUZU-CUITCIIL.	Juliup	CAPCHICHCCS

09/2024 - 01/2025 Senior Machine Learning Engineer, Giotto Al

Contributed to cutting-edge research tackling the ARC challenge. Especially focused on data augmentation. Extensively used BART for classification, and Pytorch/Lightning for efficient multi-GPU training.

03/2024 - 05/2024 Senior Software Engineer, Deep Impact

Had the opportunity to have direct experience of Computer Vision. both on cloud and edge embedded devices (Nvidia Jetson platform). Contributed by overhauling Docker setup and solving bugs.

03/2023 - 09/2023 Senior Software Engineer, DoubleCloud

> Developed infrastructure around ClickHouse SQL, deploying with Salt-Stack, Helm and Terraform. Go for Telegraf plugins.

06/2021 - 09/2022 Senior Software Engineer, Firebolt

Developed the SQL optimization engine and testing infrastructure.

- Expanded supported SQL syntax and optimizations
- o reworked the test framework to support new test suite
- o contributed to rewriting to higher standards the optimization engine

08/2020 - 02/2021 Software Developer and Quantitative Analyst, F-Trust

Maintained and developed a Trading Engine (C++)

redesigned, implemented and migrated storage (PostgreSQL)
extracted and integrated data from multiple log streams

analyzed data to highlight opportunities for improvement (Julia)

2017-2020: Google

10/2017 - 05/2020 Senior Software Developer, Google

Within Search, productionized an initially experimental tool (C++).

- Improved runtime from days to hours
- added support for new kinds of data
- o made the results easily visualizable and monitorable
- made onboarding orders of magnitude faster for most cases

2015-2017: Initial Experiences

04/2016 - 10/2017 Software Developer, Ascent Software

I helped maintain and develop a driver (C++) for automotive communications, running both on regular computers and embedded (QNX real-time OS) systems.

04/2015 - 04/2016 Junior Developer, Rulex Inc. /CNR

Explored options for speeding up C algorithms with CPU (OpenMP) and GPU (Nvidia CUDA) parallelization. MATLAB algorithms to Python.

Skills

Programming

C++

- C++/Abseil
- C++/Boost

Python SQL

- Clickhouse SQL
- PostgreSQL

Java

Julia

Go

Universal Tools

BASH

Git

Jenkins CI

Advanced Tools

Docker

Terraform

Helm

gRPC

ZeroMQ

Valgrind

Flamegraph

Gstreamer

Nvidia CUDA

OpenMP

Platforms

Linux

AWS

Windows

Nvidia Jetson

Competences

Testing

DevOps

Design Docs

Embedded Dev.

Agile Dev.



English Italiano

Deutsch

Français



Formal education

02/24-11/24	CAS ETH in Machine Learning in Finance and Insurance, ETH Zürich
2009–2015	Galileian School of Higher Education, University of Padua, Enriching program, 98/100
2012-2014	Master Degree in Mathematics, University of Padua, 108/110
2009–2012	Bachelor Degree in Mathematics, University of Padua, 110/110 cum Laude
2004-2009	High School - Science Track, added IT, French, Liceo Fermi, Bologna, 100/100 cum Laude

Continuous Learning

Programming languages

Aug 2024	GitHub	J.P. Morgan Python training	React	
Aug 2024	Linkedin	React.js Essential training	Rust	
May 2024	Linkedin	gRPC in Python	C#	
May 2024	Linkedin	Design Patterns for Rust	Financial Python	
Mar 2024	Linkedin	C# and .NET Essential Training	Java	
Jan 2024	Linkedin	Designing RESTful APIs	MATLAB	
Nov 2023	Linkedin	C# Essential Training 1: Types and Control Flow	C Embedded	
Nov 2023	Linkedin	C Programming for Embedded Applications	gRPC	
Oct 2023	Linkedin	Learning MATLAB	REST	
Jan 2023	Linkedin	Rust Essential Training		
Jan 2023	Linkedin	Level Up: Java		
Dec 2022	Linkedin	First Look: Rust		
	D	esign, documentation and communication		
Aug 2024	Linkedin	Communicating Time Boundaries	UML	
Jun 2024	Linkedin	Software Design: Modeling with UML	Business planning	
Feb 2023	Linkedin	Software Architecture: From Developer to Architect	Software Arch.	
	C	loud and DevOps		

Linkedin **DevOps Foundations: Going Cloud Native** May 2020 Linkedin Cloud Architecture: Advanced Concepts (2019)

Projects

Embedded

Linkedin



Feb 2023

Jan 2023

Nov 2023 BTC Arduino monitor github.com/Fdondi/arduino-btc Board blinking green for increased bitcoin pirce, red for decrease. Blinks faster for fast price change.

AWS Certified Solutions Architect - Associate (SAA-C02)

Aug 2024 Al Keyboard github.com/Fdondi/ai_keyboard

A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.

Competitions

ongoing **Leetcode**, https://leetcode.com/u/Fdondi/

ongoing Kaggle, https://www.kaggle.com/litecoin

2024 Codility Pi Challenge, Silver Award

19-20/Mar/2016 **H-Farm**, *H-Ack Food*, Reinventing the 'Bio food' experience.

12-13/Dec/2015 H-Farm, H-Ack Luxottica, Ideas for the future of glasses.

2009 Italian Olympics of Mathematics, Gold

2008 Italian Olympics of Information Technology, Bronze

C++ Embedded Arduino

Embedded Devel-

opment

Electronics Embedded

AWS Cloud

DevOps

con-(USB, nectivity WiFi/SSH, Blue-

tooth LE)

Personal

Hobbies:

Read, hike, bike, swim.

