Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

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

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

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○ Fdondi

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

Who I am

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.

2020-current: Startup experiences

09/2024 - 01/2025 — **Senior Machine Learning Engineer, Giotto AI**
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 SaltStack, 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
- reworked the test framework to support new test suite
- 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
- 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++	●●●●●
Python	●●●●●
SQL	●●●●●
- Clickhouse SQL	●●●●●
- PostgreSQL	●●●●○
Java	●●○○○
Julia	●●○○○
C#	●●○○○
Go	●○○○○

Data Science/ML
Pytorch	●●●●●
TensorFlow	●●●○○
Pandas	●●●●○
Numpy	●●●○○

Universal Tools
Git	●●●●●
Nvidia CUDA	●●●●●
BASH	●●●●○
Jenkins CI	●●●○○

Advanced Tools
Docker	●●●●○
Terraform	●●○○○
Helm	●○○○○
gRPC	●●●○○

Platforms
Linux	●●●●○
AWS	●●●○○
GCloud	●●●○○
Windows	●●●●○
Nvidia Jetson	●●○○○

Competences
Testing	●●●●●
DevOps	●●●●○
Design Docs	●●●●●
Agile Dev.	●●●●○
Embedded Dev.	●●○○○
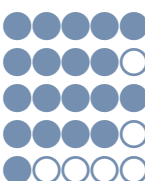
Languages
English	●●●●●
Italiano	●●●●●
Deutsch	●●●○○
Français	●●●○○

Formal education

02/2024–10/2024	**CAS ETH in Machine Learning in Finance and Insurance**, *ETH Zürich*	
01/2023–06/2023	**Business Analytics: From Data to Decisions**, *Imperial College Business School*	
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

Data Science/Analytics

Aug 2024	*GitHub*	**J.P. Morgan Python training**	Data Analysis	●●●○○
Nov 2023	*Linkedin*	**Data Fluency: Exploring and Describing Data**	Data Visualization	●●●●○
Nov 2023	*Linkedin*	**Power BI Essential Training**	Probability	●●●●○
Oct 2023	*Linkedin*	**Business Intelligence for Consultants**	Microsoft Power BI	●●○○○
Oct 2023	*Linkedin*	**Data Analytics for Business Professionals**	Microsoft Excel	●●●●●
Oct 2023	*Linkedin*	**Excel: Economic Analysis and Data Analytics**	Pandas	●●●●○
Oct 2023	*Linkedin*	**The Non-Technical Skills of Effective Data Scientists**		

Machine Learning/LLMs/AI

Jan 2024	*Coursera*	**Generative AI with Large Language Models**	LLMs	●●○○○

Programming languages

Nov 2023	*Linkedin*	**C# Essential Training 1: Types and Control Flow**	C#	●●○○○
Oct 2023	*Linkedin*	**Learning MATLAB**	MATLAB	●●●○○
Nov 2023	*Linkedin*	**C Programming for Embedded Applications**	C Embedded	●●●○○

Design, documentation and communication

Jun 2024	*Linkedin*	**Software Design: Modeling with UML**	UML	●●○○○

Cloud and DevOps

Feb 2023	*Linkedin*	**AWS Certified Solutions Architect - Associate (SAA-C02)**	AWS Cloud	●●●●○
Jan 2023	*Linkedin*	**DevOps Foundations: Going Cloud Native**	DevOps	●●●○○

Projects

Embedded
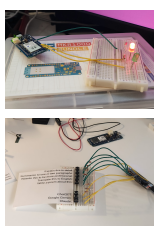
	Nov 2023	**BTC Arduino monitor** github.com/Fdondi/arduino-btc Board blinking green for increased bitcoin pirce, red for decrease. Blinks faster for fast price change.	C++ Embedded Arduino Embedded Development	●●●○○ ●●○○○ ●●○○○
	Aug 2024	**AI Keyboard** github.com/Fdondi/ai_keyboard A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.	Electronics Embedded connectivity (USB, WiFi/SSH, Bluetooth LE)	●●○○○ ●○○○○

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* 🏅	

Personal
Hobbies:
Read, hike, bike, swim.