Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at:
github.com/Fdondi/cv-latex/blob/main/cv_en.pdf

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, optimizing SQL databases, and implementing effective data analytics. My expertise ranges from securing and improving server configurations to developing end-to-end sophisticated software solutions. 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

03/2024 - 05/2024
Winterthur
Company size: 3

Software Developer, 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
Zürich
Company size: 50

Software Developer, DoubleCloud
Maintained and developed the infrastructure around managed ClickHouse SQL, plus configuring deployment with SaltStack. First serious use of Go, for Telegraf plugins.

06/2021 - 09/2022
Zürich
Company size: 50

Software Developer, Firebolt
Maintained and 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
Zug
Company size: 5

Developer / 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
Zürich
Company size: 100k

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
Luqa, Malta
Company size: 50

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
Genua, Italy
Company size: 5

Junior Developer, Rulex Inc. /CNR
Explored options for speeding up C algorithms with CPU (OpenMP) and GPU (Nvidia CUDA) parallelization. Transported MATLAB algorithms to Python.

Skills

Programming
C++	●●●●●
- C++/Abseil	●●●●○
- C++/Boost	●●●●○
Java	●●○○○
SQL	●●●●●
- Clickhouse SQL	●●●●○
- PostgreSQL	●●●●○
Python	●●●●○
Julia	●●●○○
Go	●○○○○

Universal Tools
BASH	●●●●○
Visual Studio	●●○○○
Git	●●●●○
Jenkins CI	●●●○○

Advanced Tools
Docker	●●●●○
gRPC	●●●○○
ZeroMQ	●●○○○
Valgrind	●●●○○
Flamegraph	●●○○○
Gstreamer	●●○○○
Nvidia CUDA	●●●○○
OpenMP	●●●○○

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

Competences
Testing	●●●●●
Debugging	●●●●○
DevOps	●●●○○
Design Docs	●●●○○
Embedded Dev.	●○○○○
Agile Dev.	●●●○○

Languages
English	●●●●●
Italiano	●●●●●
Deutsch	●●●○○
Français	●●●○○

Formal education

02/2024–10/2024 (exp.)	**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

Date	Source	Course	Skill	Level
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

Date	Source	Course	Skill	Level
Jan 2024	*Coursera*	**Generative AI with Large Language Models**	LLMs	●●○○○

Programming languages

Date	Source	Course	Skill	Level
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

Date	Source	Course	Skill	Level
Jun 2024	*Linkedin*	**Software Design: Modeling with UML**	UML	●●○○○

Cloud and DevOps

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

Projects

Embedded

Date	Project	Skill	Level
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	●●○○○

Date	Project	Skill	Level
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

2009	**Italian Olympics of Mathematics**, *Gold* 🥇
2008	**Italian Olympics of Information Technology**, *Bronze* 🥉
12-13/12/15	**H-Farm**, *H-Ack Luxottica*, Ideas for the future of glasses.
19-20/03/16	**H-Farm**, *H-Ack Food*, Reinventing the 'Bio food' experience.

Personal

Hobbies:
Read, hike, bike, swim.