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

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✉ francesco314@gmail.com
in francesco-dondi
 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.

Professional Experience

03/2023 - 05/2024
Winterthur
Company size: 3

Software Developer, Deep Impact
Diagnosed and corrected incorrect document recovery. Diagnosed and mitigated slow startup. Overhauled Docker organization.

03/2023 - 09/2023
Zürich
Company size: 50-100

Software Developer, DoubleCloud
Maintained and developed the infrastructure around managed ClickHouse, in particular:
- Secured metrics server by adding Nginx
- Improved SaltStack configuration
- Solved bugs in Telegraf Go plugins

06/2021 - 09/2022
Zürich
Company size: 50-100

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)

10/2017 - 05/2020
Zürich
Company size: 100.000

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

04/2016 - 10/2017
Luqa, Malta
Company size: 50-100

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.
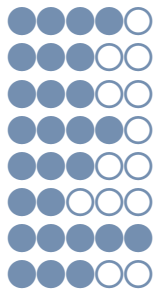
Skills

Programming
C++	●●●●●
- C++/Abseil	●●●●○
- C++/Boost	●●●●○
Java	●●○○○
SQL	●●●●●
- Clickhouse SQL	●●●●●
- PostgreSQL	●●●●○
Python	●●●●○
Julia	●●●○○
Go	●○○○○
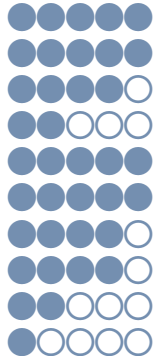
Universal Tools
BASH	●●●●○
SSH	●●●●○
VIM	●●●○○
Linux	●●●●●
Windows	●●●●○
Visual Studio	●●●○○
Git	●●●●●
Jenkins CI	●●●●○

Advanced Tools
AWS	●●●○○
Docker	●●●●○
gRPC	●●●●○
ZeroMQ	●●○○○
Valgrind	●●●●○
Flamegraph	●●●○○
Gstreamer	●●○○○
Nvidia CUDA	●●○○○
OpenMP	●●●○○
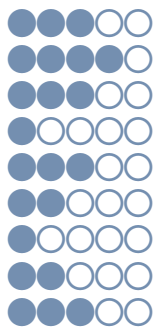
Competences
Testing	●●●●●
Debugging	●●●●○
DevOps	●●●●○
Design Docs	●●●●○
Embedded Dev.	●●○○○
Agile Dev.	●●●●○
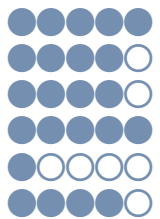
Languages
English	●●●●●
Italiano	●●●●●
Deutsch	●●●○○
Français	●●●○○

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

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

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	●●●○○

Embedded development

Nov 2023	*Linkedin*	**C Programming for Embedded Applications**	C Embedded	●●●○○

Cloud and DevOps

Feb 2023	*Linkedin*	**AWS Certified Solutions Architect - Associate (SAA-C02) Cert Prep: 1 Cloud Services Overview**	Cloud Admin	●●●○○
			AWS Cloud	●●●●○
Jan 2023	*Linkedin*	**DevOps Foundations: Going Cloud Native**	DevOps	●●●●○

Projects

Embedded
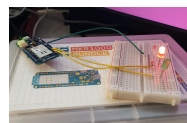
Nov 2023	**BTC Arduino monitor**	C++ Embedded	●●●○○
	github.com/Fdondi/arduino-btc	Arduino	●●○○○
	A bot checking Bitcoin prices and blinking a green led if the price is above average, red if below. The speed of blinking depends on the magnitude of the change.	SSH embedded	●○○○○
		Embedded Development	●●○○○

LLMs / Prompt engineering
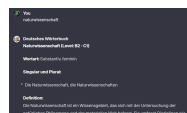
Dec 2023	**Deutsches Wörterbuch**	AI UX	●●●○○
	chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch	Prompt engineering	●●●○○
	A CustomGPT, takes one word and provides grammar, explanation in German and English, examples of use, and a final image visualizing the concept. Clarifies ambiguous or misspelled words, can discuss any user doubt. Can adjust German level used both automatically and on request.		

Personal

Hobbies: Reading, hiking, biking, swimming.