

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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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.

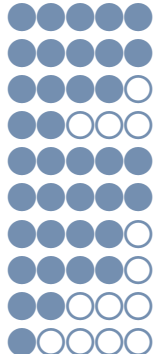
Professional Experience

- 03/2023 - 05/2024 **Software Developer, Deep Impact**
Winterthur
Company size: 3
Diagnosed and corrected incorrect document recovery. Diagnosed and mitigated slow startup. Overhauled Docker organization.
- 03/2023 - 09/2023 **Software Developer, DoubleCloud**
Zürich
Company size: 50-100
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 **Software Developer, Firebolt**
Zürich
Company size: 50-100
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 **Developer / Analyst, F-Trust**
Zug
Company size: 5
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 **Software Developer, Google**
Zürich
Company size: 100.000
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 **Software Developer, Ascent Software**
Luqa, Malta
Company size: 50-100
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**
Genua, Italy
Company size: 5
Explored options for speeding up C algorithms with CPU (OpenMP) and GPU (Nvidia CUDA) parallelization. Transported MATLAB algorithms to Python.

Skills

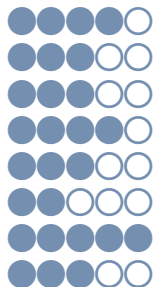
Programming

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



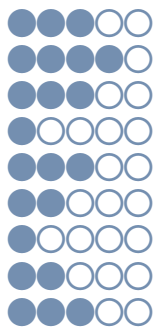
Universal Tools

BASH
SSH
VIM
Linux
Windows
Visual Studio
Git
Jenkins CI



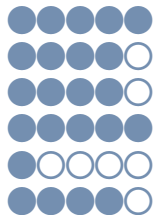
Advanced Tools

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	●●○○○○
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Programming languages

Nov 2023	Linkedin	C# Essential Training 1: Types and Control Flow	C#	●●○○○○
Oct 2023	Linkedin	Learning MATLAB	MATLAB	●●●○○○

Embedded development

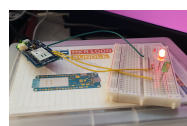
Nov 2023	Linkedin	C Programming for Embedded Applications	C Embedded	●●●○○○
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Cloud and DevOps

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

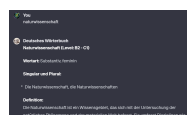
Projects

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-bpvvdz1KE-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.