

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 technical acumen extends to securing servers, enhancing system configurations, and driving large-scale infrastructure projects. Complementing these technical skills, I am known for my clear communication and entrepreneurial approach, fostering positive relationships with colleagues, superiors, and clients.

Professional Experience

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

Software Developer, Zürich
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
Firebolt
Company size: 50-100

Software Developer, Zürich
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
F-Trust
Company size: 5

Developer / Analyst, Zug
 - 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
Google
Company size: 100.000

Software Developer, Zürich
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
Ascent Software

Software Developer, Luqa, Malta
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
Rulex Inc. /CNR

Junior Developer, Genua, Italy
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
- SQL
- Clickhouse SQL
- PostgreSQL
- Python
- Julia
- Go

Tools

- BASH
- Linux
- Windows
- Visual Studio
- AWS storage
- Docker
- Git
- Jenkins CI
- SSH
- VIM
- Valgrind
- Flamegraph
- Nvidia CUDA
- OpenMP

Competences

- Testing
- Debugging
- DevOps
- Design Docs
- Embedded Dev.
- Agile Dev.

Languages

- English
- Italiano
- Deutsch
- Français

Formal education

- 2023 H1 **Business Analytics: From Data to Decisions**, *Imperial College Business School*
- 2009–2015 **Galileian School of Higher Education**, *University of Padua*, University-level enriching program for gifted students, *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	<i>Linkedin</i>	Data Fluency: Exploring and Describing Data	Data Analysis	●●●●○
Nov 2023	<i>Linkedin</i>	Power BI Essential Training	Data Visualization	●●●●○
Oct 2023	<i>Linkedin</i>	Business Intelligence for Consultants	Probability	●●●●○
Oct 2023	<i>Linkedin</i>	Data Analytics for Business Professionals	Microsoft Power BI	●●●●○
Oct 2023	<i>Linkedin</i>	Excel: Economic Analysis and Data Analytics	Microsoft Excel	●●●●●
Oct 2023	<i>Linkedin</i>	The Non-Technical Skills of Effective Data Scientists	Pandas	●●●●○

Programming languages

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

Embedded development

Nov 2023	<i>Linkedin</i>	C Programming for Embedded Applications	C Embedded	●●●●○
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Cloud and DevOps

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

Projects

Embedded



Nov 2023	BTC Arduino monitor github.com/Fdondi/arduino-btc 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.	C++ Embedded Arduino SSH embedded Embedded Development	●●●●○ ●●●●○ ●●●●○ ●●●●○
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LLMs / Prompt engineering



Dec 2023	Deutsches Wörterbuch chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch 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.	AI UX Prompt engineering	●●●●○ ●●●●○
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Personal

Hobbies: Reading, hiking, biking, swimming.