

# 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](https://github.com/Fdondi/cv-latex/blob/main/cv_en.pdf)

Zugerstarsse 66, 8810 Horgen, ZH

📞 +41 76 456 50 32

✉️ [francesco314@gmail.com](mailto: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.

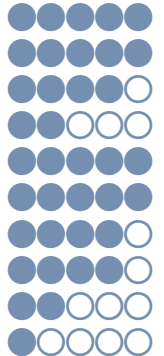
## Professional Experience

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

## Skills

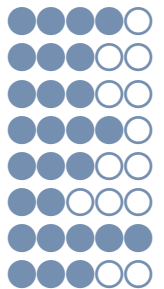
### Programming

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



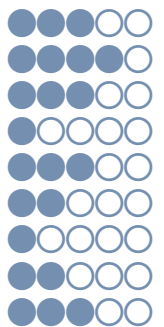
### Universal Tools

BASH  
SSH  
VIM  
Linux  
Windows  
Visual Studio  
Git  
Jenkins CI



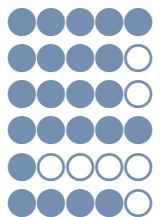
### Advanced Tools

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.)	<b>CAS ETH in Machine Learning in Finance and Insurance, ETH Zürich</b>
01/2023–06/2023	<b>Business Analytics: From Data to Decisions, Imperial College Business School</b>
2009–2015	<b>Galileian School of Higher Education, University of Padua, Enriching program, 98/100</b>
2012–2014	<b>Master Degree in Mathematics, University of Padua, 108/110</b>
2009–2012	<b>Bachelor Degree in Mathematics, University of Padua, 110/110 cum Laude</b>
2004–2009	<b>High School - Science Track, added IT, French, Liceo Fermi, Bologna, 100/100 cum Laude</b>

## Continuous Learning

### Data Science/Analytics

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

### Machine Learning/LLMs/AI

Jan 2024	Coursera	<b>Generative AI with Large Language Models</b>	LLMs	●●○○○○
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### Programming languages

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

### Embedded development

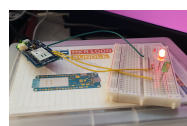
Nov 2023	Linkedin	<b>C Programming for Embedded Applications</b>	C Embedded	●●●○○○
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### Cloud and DevOps

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

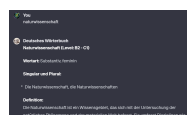
## Projects

### Embedded



Nov 2023	<b>BTC Arduino monitor</b>	C++ Embedded	●●●○○○
	<a href="https://github.com/Fdondi/arduino-btc">github.com/Fdondi/arduino-btc</a>	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	<b>Deutsches Wörterbuch</b>	AI UX	●●●○○○
	<a href="https://chat.openai.com/g/g-bpvvdz1KE-deutsches-worterbuch">chat.openai.com/g/g-bpvvdz1KE-deutsches-worterbuch</a>	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.