

# 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)

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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 - 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

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## 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*

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## Continuous Learning

### Data Science/Analytics

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

### Programming languages

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

### Embedded development

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

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

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## Projects

### Embedded



Nov 2023	<b>BTC Arduino monitor</b> <a href="https://github.com/Fdondi/arduino-btc">github.com/Fdondi/arduino-btc</a> 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	<b>Deutsches Wörterbuch</b> <a href="https://chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch">chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch</a> 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.