Francesco Dondi

😃 Born 29/10/1990, Bologna, Italy, 몔 Italian citizen Married, no children

Latest version of this CV at: github.com/Fdondi/cv-latex/blob/main/cv_en.pdf 뤔 Resident Zugerstarsse 66, 8810 Horgen, ZH +41 76456 50 32 ☑ francesco314@gmail.com in francesco-dondi G Fdondi C permit until 30/09/27



The guarantee of experience, the enthusiasm for good engineering.



Experience

09/2023 - Current Growth time

Restarted intensive German study. First personal embedded development project (Arduino). Experimented with LLMs, including: prompt engineering, created a CustomGPT to assist with German learning; architecture, discovered the details of transformer structure and parameter efficient training; learnt to run language models locally.

03/2023 - 09/2023 DoubleCloud

Company size: 50-100

Software Developer, Zürich

Maintained and developed the infrastructure around managed Click-House, in particular:

- Secured metrics server by adding Nginx
- Improved SaltStack configuration
- Solved bugs in Telegraf Go plugins

10/2022 - 02/2023 **Personal Time**

Got married, organized celebrations across two continents. Moved house. Started studying German intensively. Sailed for a week for the first time. Decided to take Data Science certification (see Education).

06/2021 - 09/2022

Software Developer, Zürich

Firebolt Maintained and developed the SQL optimization engine and testing infrastructure. Company size: 50-100

- Expanded supported SQL syntax and optimizations
- o reworked the test framework to support new test suite
- o contributed to rewriting to higher standards the optimization engine

08/2020 - 02/2021 **Developer / Analyst**, Zug

F-Trust O Maintained and developed a Trading Engine (C++)

Company size: 5 o redesigned, implemented and migrated storage (PostgreSQL)

- o extracted and integrated data from multiple log streams
- analyzed data to highlight opportunities for improvement (Julia)

Google

10/2017 - 05/2020 **Software Developer**, Zürich

Within Search, productionized an initially experimental tool (C++).

Company size: 100.000

Improved runtime from days to hours

- o added support for new kinds of data
- o made the results easily visualizable and monitorable
- o made onboarding orders of magnitude faster for most cases

Ascent Software

04/2016 - 10/2017 Software Developer, Luqa, Malta

Bridging from internal API to new device API for automotive.

04/2015 - 04/2016

Junior Developer, Genua, Italy

Rulex Inc. /CNR

Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

Languages

English Fluent professional Italiano Madrelingua B1, B2 geplänt 03/24 Deutsch

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Français

C++

- C++/Abseil

Programming

- 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

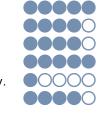
Testing Debugging

DevOps

Design Docs

Embedded Dev.

Agile Dev.



	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	Data Fluency: Exploring and Describing Data, Linkedin, Barton Poulson how to prepare and adapt data, explore it visually, and use statistical O Data Science methods to describe it, going in depth on probability and interference. Preparing data Probability Also touching on data ethics and explainable Al. Thinking with data; preparing data; adapting data; exploring data; describing data; understanding probability and inference.
Nov 2023	Power BI Essential Training, Linkedin, Gini von Courter, 3h 45m
	Data types in Power BI. Visualizations in Power BI. Outcomes when changes are made within Power BI and Power BI Desktop. Dashboards vs reports within Power BI. User roles within a workspace in Power BI. Workspaces and tools within the Power BI mobile application.
Oct 2023	Business Intelligence for Consultants, Linkedin, Joshua Rischin, 29m
	Determine the essentials of business needs. Recognize the funda- O Business Intellimentals in reviewing source data. Break down the meaning behind data-driven insights.
Oct 2023	Data Analytics for Business Professionals, Linkedin, John Johnsond, 1h 16m
	Real-life analytics in action. Predictive and prescriptive approaches. Pandas Formulate and pose your own questions. Collect, clean, and aggregate Data Analytics Data Analytics Data Visualization
Oct 2023	Excel: Economic Analysis and Data Analytics, Linkedin, Michael McDonald, 2h 17m
	Using regression analysis, confidence intervals, and forecasting tools of Microsoft Excel with your company's key performance indicators (KPIs), building your skill set in data analytics to better meet the needs of your business.
Oct 2023	The Non-Technical Skills of Effective Data Scientists, Linkedin, Keith McCormick, 44m
	New data scientists must be able to empathize, persuade, and lead others if they want to successfully run projects that produce business transformation. All and LLMs
	Programming languages
	C# Essential Training 1: Types and Control Flow, Linkedin, Matt Milner, 2h 38m C# in context; .NET, MSIL, and the Base Class Library. Fundamental ○ ▶c# ○ ♠ C# patterns patterns of C# from control flow to enums and switch matches.
Oct 2023	Learning MATLAB, Linkedin, Steven Moser, 1h 13m MATLAB tools to model data and hypotheses ○ ✔ MATLAB
	Embedded development
Nov 2023	C Programming for Embedded Applications, Linkedin, Eduardo Corpeño, 2h 5m Deliver applications that are small, efficient, and fast for the Internet of ○ C Embedded Cevelopment C Embedded Development
	Cloud and DevOps
Feb 2023	AWS Certified Solutions Architect - Associate (SAA-CO2) Cert Pren: 1 Cloud Services

Overview, Linkedin, Tom Carpenter, 1h7m

architects— need to know to embrace cloud native.

AWS services, security solutions of AWS, AWS regions and availability. ○ ♣ AWS Cloud

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O Cloud Computing

O Cloud Development

Projects

Embedded

Nov 2023 BTC Arduino monitor, https://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.





More

Awards

- 2014 GRE test score: Verbal 165 (95° percentile), Quantitative : 170 (98° percentile), Analytical: 4.0 (56° percentile
- 2009 Italian Olympics of Mathematics: Gold
- 2008 Italian Olympics of Information Technology: Bronze
- 2006 Special mention in high school literary prize "Le ali dell'Ippogrifo"

Hackatons

- 12-13/12/15 H-Farm H-Ack Luxottica: ideas for the future of glasses.
- 19-20/03/16 H-Farm H-Ack Food: reinventing the 'Bio food' experience.