# 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 📤 Resident Zugerstarsse 66, 8810 Horgen, ZH **1** +41 76456 50 32 ☑ francesco314@gmail.com in francesco-dondi **7** Fdondi C permit until 30/09/27

Valgrind



Cuda <sup>Julia</sup>

+ + Python

Cloud Vim Vim

	Experience Agile Date		Flamegraph esigndocs
	Kubernetes	Bash Er Studio Jenkins	nbedded Google Testing
09/2023 - Current	Growth time		
	O Continuing German study		
	First personal embedded development project (Arduino)	Languages	
	<ul> <li>Experimented with LLMs, including</li> </ul>	English	Fluent
	- prompt engineering: created a CustomGPT to assist with Ge	ltalian er-	Madrelingua
	man learning	German	B1, B2 geplänt
	- architecture: discovered the details of transformer structure ar	<sub>nd</sub> Français	Bon
	parameter efficient training - learnt to run language models locally, especially Mistral	Programming	
03/2023 - 09/2023	Software Developer, Zürich	C++	00000
DoubleCloud	Maintained and developed the infrastructure around managed Clic	ck C++/Abseil	00000
	House, in particular:	- C++/Boost	
	<ul> <li>Secured metrics server by adding Nginx</li> </ul>	SQL	00000
	<ul> <li>Improved SaltStack configuration</li> </ul>	- Clickhouse SQ	
	<ul> <li>Solved bugs in Telegraf Go plugins</li> </ul>	- PostgreSQL	
10/2022 - 02/2023	Personal Time	Python	00000
	O Got married	Julia	
	<ul><li>Moved to new house</li><li>Sailed for a week for the first time</li></ul>	Go	
	Started studying German intensively	Tools BASH	
	O Got interested in data science	Linux	00000
06/2021 - 09/2022	Software Developer, Zürich	Windows	
Firebolt	-		
	infrastructure.	AWS storage	••000
	<ul> <li>Expanded supported SQL syntax and optimizations</li> </ul>	Docker	
	o reworked the test framework to support new test suite	Git	00000
	o contributed to rewriting to higher standards the optimization engine	<sup>ne</sup> Jenkins CI	
08/2020 - 02/2021	Developer / Analyst, Zug	SSH	
F-Trust	$\circ$ Maintained and developed a Trading Engine (C++)	VIM	<b>•••</b> •00
	o redesigned, implemented and migrated product storage (Pos	•	
	greSQL)  o extracted and integrated data from multiple log streams	Flamegraph	
	<ul> <li>analyzed said data to highlight opportunities for improvement</li> </ul>	Nvidia CUDA <sup>nt</sup> OpenMP	
	(Julia)	Competences	
10/2017 - 05/2020	Software Developer, Zürich	Testing	00000
Google	Within Search, productionized an initially experimental tool ( $C++$	-). Debugging	
	<ul> <li>Improved runtime from days to hours</li> </ul>	DevOps	
	o added support for new kinds of data	Design Docs	00000
	<ul> <li>made the results easily visualizable and monitorable</li> <li>made onboarding orders of magnitude faster for most cases</li> </ul>	Embedded Dev.	00000
04/2016 10/2017		Agile Dev.	
04/2010 - 10/2017	Software Developer, Luqa, Malta		

Ascent Software Bridging from internal API to new device API for automotive.

Rulex Inc./CNR Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

04/2015 - 04/2016 **Junior Developer**, Genua, Italy

	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

Jan 2023 **DevOps Foundations: Going Cloud Native**, *Linkedin*, Karthik Gaekwad, 45m The information senior executives —CTOs, vice presidents, and chief O DevOps

2/2

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 ( $95^{\circ}$  percentile), Quantitative : 170 ( $98^{\circ}$  percentile), Analytical: 4.0 ( $56^{\circ}$  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.