

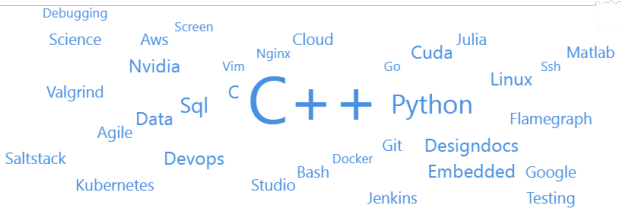
Francesco Dondi

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



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 ClickHouse, in particular: <ul style="list-style-type: none">Secured metrics server by adding NginxImproved SaltStack configurationSolved 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 Firebolt Company size: 50-100	Software Developer , Zürich Maintained and developed the SQL optimization engine and testing infrastructure. <ul style="list-style-type: none">Expanded supported SQL syntax and optimizationsreworked the test framework to support new test suitecontributed to rewriting to higher standards the optimization engine
08/2020 - 02/2021 F-Trust Company size: 5	Developer / Analyst , Zug <ul style="list-style-type: none">Maintained and developed a Trading Engine (C++)redesigned, implemented and migrated storage (PostgreSQL)extracted and integrated data from multiple log streamsanalyzed 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++). <ul style="list-style-type: none">Improved runtime from days to hoursadded support for new kinds of datamade the results easily visualizable and monitorablemade onboarding orders of magnitude faster for most cases
04/2016 - 10/2017 Ascent Software	Software Developer , Luqa, Malta Bridging from internal API to new device API for automotive.
04/2015 - 04/2016 Rulex Inc. /CNR	Junior Developer , Genua, Italy Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

Languages	
English	Fluent professional
Italiano	Madrelingua
Deutsch	B1, B2 geplänt 03/24
Français	Bon
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.	●●●○○

Formal education

2023 H1	Business Analytics: From Data to Decisions , <i>Imperial College Business School</i>
2009–2015	Galileian School of Higher Education , <i>University of Padua</i> , University-level enriching program for gifted students, <i>98/100</i>
2012–2014	Master Degree in Mathematics , <i>University of Padua</i> , <i>108/110</i>
2009–2012	Bachelor Degree in Mathematics , <i>University of Padua</i> , <i>110/110 cum Laude</i>
2004–2009	High School - Science Track , added IT, French , <i>Liceo Fermi</i> , Bologna, <i>100/100 cum Laude</i>

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	●●●○

AI and LLMs

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	●●○○

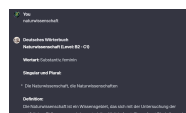
Projects

Embedded



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

LLMs / Prompt engineering



Dec 2023	Deutsches Wörterbuch chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch	AI UX 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.			

UI/Design



Dec 2023	This CV github.com/Fdondi/cv-latex	LaTeX Business communication	●●●○ ●●○○
LaTeXCV, heavily modified from <i>moderncv</i> , with a wordcloud and second bar on the left to showcase competences level. Two more colors introduced. Courses and projects are displayed with custom formatting.			