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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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 technical acumen extends to securing servers, enhancing system configurations, and driving large-scale infrastructure projects. Complementing these technical skills, I am known for my clear communication and entrepreneurial approach, fostering positive relationships with colleagues, superiors, and clients.

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	●●●○○

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

AI and LLMs

Programming languages

Nov 2023	*Linkedin*	**C# Essential Training 1: Types and Control Flow**	C# ●●○○○
Oct 2023	*Linkedin*	**Learning MATLAB**	MATLAB ●●●○○

Embedded development

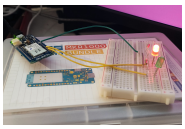
Nov 2023	*Linkedin*	**C Programming for Embedded Applications**	C Embedded ●●●○○

Cloud and DevOps

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

Projects

Embedded



Nov 2023 **BTC Arduino monitor**
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.

C++ Embedded ●●●○○
Arduino ●●○○○
SSH embedded ●○○○○
Embedded Development ●●○○○

LLMs / Prompt engineering

Dec 2023 **Deutsches Wörterbuch**
chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch
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 ●●●○○

UI/Design

Dec 2023 **This CV**
github.com/Fdondi/cv-latex
LaTeXCV, heavily modified from *moderncv*, with a wordcloud and second bar on the left to showcase competences level. Two more colors introduced. Courses and projects are diplayed with custom formatting.

LaTeX ●●●●●
Business communication ●●●●○