# 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, especially Mistral.

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

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
- 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

00000

00000

0000

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

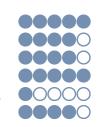
**Testing** Debugging

DevOps

Design Docs

Embedded Dev.

Agile Dev.



## Formal education 2023 H1 Business Analytics: From Data to Decisions, 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 Exploring data methods to describe it, going in depth on probability and interference. O Preparing data O Probability Also touching on data ethics and explainable AI. 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 O A Microsoft Power tion 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 Intelli- O Data Visualization mentals 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 O B Data Analytics Formulate and pose your own questions. Collect, clean, and aggregate Opatabases data from different sources. Identify when data is flawed. Oct 2023 Excel: Economic Analysis and Data Analytics, Linkedin, Michael McDonald, 2h 17m Using regression analysis, confidence intervals, and forecasting tools ○ ★ Microsoft Excel Data Analytics with your company's key performance indicators (KPIs), building your O for Economic Analyskill 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 ○ ♠ Business communication others if they want to successfully run projects that produce business transformation. Al and LLMs Programming languages Nov 2023 C# Essential Training 1: Types and Control Flow, Linkedin, Matt Milner, 2h 38m C# in context; .NET, MSIL, and the Base Class Library. Fundamental O PC# 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 O 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 Fmbedded Development Things. Memory, storage, power limitations, and hardware awareness. Cloud and DevOps Feb 2023 AWS Certified Solutions Architect - Associate (SAA-C02) Cert Prep: 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

2/1

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.