Francesco Dondi

A Florence on raconte

que la Terre serait ronde.

Latest version at: github.com/Fdondi/cv-latex/blob/main/cv_en.pdf

Resident 8810 Horgen, Zürich canton

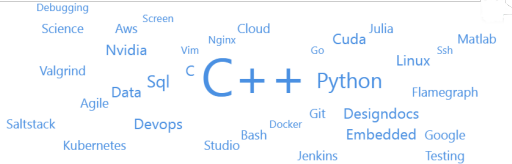📱 *+41 76456 50 32*

✉ *francesco314@gmail.com*

in *francesco-dondi*

○ *Fdondi*

Born 1990, Italy, Italian citizen

Swiss C permit until 30.09.27

German B2 planned Mar 2024

Professional Experience

03/2023 - 09/2023 **DoubleCloud**	**Software Developer**, Fully Remote

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

○ ✏ C++ ○ ☁ AWS storage
○ ✏ Go ○ ⚙ Docker
○ ✏ Bash ○ ⚙ Jenkins CI
○ 🗄 ClickHouse SQL ○ ⚙ Nginx
○ ⑂ Git ○ ⚙ SaltStack
○ △Linux, Bash

06/2021 - 09/2022 **Firebolt**	**Software Developer**, Fully Remote

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

○ ✏ C++ ○ ◑ Testing
○ ✏ Python ○ ⚙ Jenkins
○ 🗄 Firebolt SQL ○ ◑ Debugging
○ ⑂ Git ○ ☁ AWS storage

08/2020 - 02/2021 **F-Trust**	**Developer / Analyst**, Zug / 50% Remote

- Maintained and developed a Trading Engine (C++)
- redesigned, implemented and migrated product storage (PostgreSQL)
- extracted and integrated data from multiple log streams
- analyzed said data to highlight opportunities for improvement (Julia)

○ ✏ C++ ○ △Linux
○ ✏ Julia ○ △Bash
○ 🗄 PostgreSQL ○ △SSH
○ ⑂ Git ○ △VIM
○ ◑ Data Science ○ △Screen

10/2017 - 05/2020 **Google**	**Software Developer**, Zürich / 10% Remote

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

○ ✏ C++ [Abseil] ○ ◑ DevOps
○ ✏ Python ○ ◑ Design Docs
○ 🗄 Google SQL ○ △ Linux
○ ⑂ internal ○ ✏ Bash
○ ⚙ Valgrind ○ ⚙ Kubernetes
○ ⚙ Flamegraph ○ ⚙ Google Data Studio

04/2016 - 10/2017 **Ascent Software**	**Software Developer**, Luqa(Malta)

Bridging from internal API to new device API for automotive.

○ ✏ C++ [Boost] ○ ◑ Agile development
○ ◑ Embedded development ○ ⑂ Git
○ ⊞Windows ○ ⊞Visual Studio

04/2015 - 04/2016 **Rulex Inc./CNR**	**Junior Developer**, Genua (Italy)

Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

○ ✏ C ○ ✏ MATLAB
○ ⚙ Nvidia CUDA ○ ✏ Python
○ ⊞Windows ○ ⊞Visual Studio

Language

Italian	Mother tongue	
English	Advanced	*110/120 TOEFL, daily use*
German	Intermediate	*B2 level planned from Mar 2024*
French	Good	*High school and occasional use*
Arabic	Beginner	*Never stop learning*

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 methods to describe it, going in depth on probability and interference. Also touching on data ethics and explainable AI. Thinking with data; preparing data; adapting data; exploring data; describing data; understanding probability and inference.

- Data Science
- Exploring data
- Preparing data
- Probability

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.

- Microsoft Power BI
- Data Visualization

Oct 2023 — Business Intelligence for Consultants, *Linkedin*, Joshua Rischin, 29m

Determine the essentials of business needs. Recognize the fundamentals in reviewing source data. Break down the meaning behind data-driven insights.

- Business Intelligence
- Data Visualization

Oct 2023 — Data Analytics for Business Professionals, *Linkedin*, John Johnsond, 1h 16m

Real-life analytics in action. Predictive and prescriptive approaches. Formulate and pose your own questions. Collect, clean, and aggregate data from different sources. Identify when data is flawed.

- Pandas
- Data Analytics
- Databases
- Data Visualization

Oct 2023 — Excel: Economic Analysis and Data Analytics, *Linkedin*, Michael McDonald, 2h 17m

Using regression analysis, confidence intervals, and forecasting tools with your company's key performance indicators (KPIs), building your skill set in data analytics to better meet the needs of your business.

- Microsoft Excel
- Data Analytics
- Economic Analysis
- Data Visualization

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.

- Business communication
- Data Science

AI 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 patterns of C# from control flow to enums and switch matches.

- C#
- C# patterns

Oct 2023 — Learning MATLAB, *Linkedin*, Steven Moser, 1h 13m

MATLAB tools to model data and hypotheses

- MATLAB
- Data Processing

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 Things. Memory, storage, power limitations, and hardware awareness.

- C Embedded
- Embedded Development

Cloud and DevOps

Feb 2023 — AWS Certified Solutions Architect - Associate (SAA-C02) Cert Prep: 1 Cloud Services Overview, *Linkedin*, Tom Carpenter, 1h7m

AWS services, security solutions of AWS, AWS regions and availability.

- AWS Cloud
- Cloud Computing

Jan 2023 — DevOps Foundations: Going Cloud Native, *Linkedin*, Karthik Gaekwad, 45m

The information senior executives —CTOs, vice presidents, and chief architects— need to know to embrace cloud native.
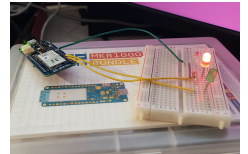
- DevOps
- Cloud Development

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.

- ○ ✏ Embedded C++
- ○ ⚙ Arduino
- ○ ⚙ Embedded web API

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.