

Francesco Dondi

Curriculum Vitæ

Resident 8810 Horgen, Zürich canton

+41 76456 50 32

francesco314@gmail.com

in francesco-dondi

Born 1990, Italy, Italian citizen

Swiss C permit until 30.09.27

German B2 planned Mar 2024



Professional Experience

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

DoubleClick

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++
- Go
- Bash
- ClickHouse SQL
- Git
- Linux, Bash

- AWS storage
- Docker
- Jenkins CI
- Nginx
- SaltStack

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

Firebolt

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++
- Python
- Firebolt SQL
- Git

- Testing
- Jenkins
- Debugging
- AWS storage

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

F-Trust

- 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++
- Julia
- PostgreSQL
- Git
- Data Science

- Linux
- Bash
- SSH
- VIM
- Screen

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

Google

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++
- Python
- Google SQL
- internal
- Valgrind
- Flamegraph

- DevOps
- Design Docs
- Linux
- Bash
- Kubernetes
- Google Data Studio

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

Ascent Software

Bridging from internal API to new device API for automotive.

- C++
- Embedded development

- Agile development
- Git

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

Rulex Inc./CNR

Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

- C
- Nvidia CUDA

- MATLAB
- Python

Education

Formal education

2023 H1 **From Data to Decisions**, Imperial College Business School





















2009–2015 **Galileian School of Higher Education**, University of Padua, 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**, with added French and IT, Liceo E. Fermi, Bologna, 100/100 cum Laude

Continuous Learning

- Nov 2023 **Business Intelligence for Consultants**, *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 fundamentals in reviewing source data. Break down the meaning behind data-driven insights.  
- Oct 2023 **Data Analytics for Business Professionals**, *Linkedin*, John Johnsonsd, 1h 16m
Explore examples of real-life analytics in action, distinguishing between predictive and prescriptive approaches, and learning how to formulate and pose your own questions. Find out how to collect, clean, and aggregate data from different sources across your organization, and 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 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.  
- Oct 2023 **Learning MATLAB**, *Linkedin*, Steven Moser, 1h 13m
How to harness the MATLAB tools and create programs to model your own data and hypotheses  
- Feb 2023 **AWS Certified Solutions Architect - Associate (SAA-C02) Cert Prep: 1 Cloud Services Overview**, *Linkedin*, Tom Carpenter, 1h7m
Explore the benefits of cloud computing, the range of AWS services, the security solutions built into AWS, and the AWS regions and availability zones.  
- 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.  

Language

Italian	Mother tongue
English	Advanced
German	Intermediate
French	Good
Arabic	Beginner

110/120 TOEFL, daily use
B2 level planned from Mar 2024

Wife teaching me

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.