

# Francesco Dondi

## Curriculum Vitae

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 Jan 2024



## Professional Experience

- 03/2023 - 09/2023 **Software Developer**  
**DoubleCloud** Maintained and developed the infrastructure around managed ClickHouse, in particular:  
Fully Remote
  - Secured metrics server by adding Nginx
  - Improved SaltStack configuration
  - Solved bugs in Telegraf Go plugins
- 06/2021 - 09/2022 **Software Developer**  
**Firebolt** Maintaining and developing the SQL optimization engine and testing infrastructure.  
Fully Remote
  - 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 **Developer / Analyst**  
**F-Trust**
  - Maintained and developed a Trading Engine (C++)

Zug / 50% Remote
  - redesigned, implemented and migrated product storage (PostgreSQL)
  - extracted and integrated data from multiple log streams
  - analyzed said data to highlight opportunities for improvement (Julia)

10/2017 - 05/2020 **Software Developer**  
**Google** Within Search, productionized an initially experimental tool (C++).  
Zürich / 10% Remote
  - 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 **Software Developer**  
**Ascent Software** Bridging from internal API to new device API for automotive.  
Luqa(Malta)

04/2015 - 04/2016 **Junior Developer**, Genua (Italy)  
**Rulex Inc./CNR** Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization  
Genova (Italy)

## 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

---

## Skills

### Programming languages

Primary **High Performance** C/C++ (up to C++20)  
**Advanced Scripting** JULIA  
**Database** SQL (POSTGRESQL)

Confident JAVA, C, JAVASCRIPT, BASH, PYTHON, MATLAB

Interested in RUST, F#, GO, SCALA, HASKELL

Frameworks POLYMER, ABSEIL, BOOST, NVIDIA CUDA, OPENMP

### Tools

Organization OKRs, Agile, Test Driven Development

Writing Technical and collaborative documents

Editors VIM, Visual Studio, Eclipse, TexMaker for L<sup>A</sup>T<sub>E</sub>X, [Google internal]

Versioning Git, SVN, [Google internal]

Debug GDB, Valgrind, [Google internal]

Profiling Valgrind, Flamegraph

Orchestration [Google Internal], Docker/Docker-Compose, SaltStack

Data presentation Google Data Studio, JULIA Plot modules

---

## Language

Italian Mother tongue

English Advanced

110/120 TOEFL, daily use

German Intermediate

B2 level planned from Jan 2024

French Good

Arabic Beginner

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.