

Francesco Dondi

Curriculum Vitæ

Resident 8810 Horgen, Zürich canton

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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

DoubleClick
Fully Remote

Software Developer

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

Firebolt
Fully Remote

Software Developer

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
- AWS storage

08/2020 - 02/2021

F-Trust
Zug / 50% Remote

Developer / Analyst

- 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

Google
Zürich / 10% Remote

Software Developer

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

04/2016 - 10/2017

Ascent Software
Luqa (Malta)

Software Developer

Bridging from internal API to new device API for automotive.

- C++
- Embedded development
- Agile development
- Git

04/2015 - 04/2016

Rulex Inc./CNR
Genova (Italy)

Junior Developer, Genua (Italy)

Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

- C
- Nvidia CUDA
- MATLAB
- Python

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 ^A T _E 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
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.