

Francesco Dondi

Curriculum Vitæ

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in francesco-dondi
🏠 Born 1990, Italy, Italian citizen
🇨🇭 Swiss C permit until 30.09.27
🌐 German B1



Professional Experience

- 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

- 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	Borg (model of Kubernetes)
Data presentation	Google Data Studio, JULIA Plot modules

Language

2022-2023	In-person intensive course, level A2-B1 , <i>German</i> , Zürich
2018	In-person private course level A2 , <i>German</i> , Zürich
2009	English course with Home-stay , <i>English</i> , York
2005	Cultural exchange , <i>French</i> , Marseille

Levels

Italian	Mother tongue	
English	Advanced	110/120 TOEFL
French	Intermediate	Good understanding, understandable conversation
German	Good	B1 level

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.