

Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: dondi.fyi/p/cd_en
Online (React) version of this CV at: <https://fdondi.github.io/cv-react/>

Zugerstarsse 66, 8810 Horgen, ZH
+41 76 456 50 32
francesco314@gmail.com
in francesco-dondi
Fdondi

Born 29/10/1990
Italian citizen, C permit
Married, no children



Who I am

As a seasoned software developer, I bring a wealth of experience in developing robust software solutions. The post-Covid time has been hectic, but the numerous experiences have allowed me to gain familiarity with all kinds of tools and processes. Now, however, I'm aiming at a stable, in-office position where I can grow long-term. I'm known among my peers and supervisors for being a reliable, intelligent, and friendly colleague, one who is always ready to take on responsibility and contribute to the team's success.

2020-current: Startup experiences

- 09/2024 - current **Senior Machine Learning Engineer, Giotto AI**
(2mo. contract) Contributing to cutting-edge machine learning research through code improvements and multi-GPU deployments.
- 03/2024 - 05/2024 **Senior Software Engineer, Deep Impact**
Had the opportunity to have direct experience of Computer Vision, both on cloud and edge embedded devices (Nvidia Jetson platform). Contributed by overhauling Docker setup and solving bugs.
- 03/2023 - 09/2023 **Senior Software Engineer, DoubleCloud**
Developed infrastructure around ClickHouse SQL, deploying with Salt-Stack, Helm and Terraform. Go for Telegraf plugins.
- 06/2021 - 09/2022 **Senior Software Engineer, Firebolt**
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
- 08/2020 - 02/2021 **Software Developer and Quantitative Analyst, F-Trust**
 - Maintained and developed a Trading Engine (C++)
 - redesigned, implemented and migrated storage (PostgreSQL)
 - extracted and integrated data from multiple log streams
 - analyzed data to highlight opportunities for improvement (Julia)

2017-2020: Google

- 10/2017 - 05/2020 **Senior Software Developer, 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

2015-2017: Initial Experiences

- 04/2016 - 10/2017 **Software Developer, Ascent Software**
I helped maintain and develop a driver (C++) for automotive communications, running both on regular computers and embedded (QNX real-time OS) systems.
- 04/2015 - 04/2016 **Junior Developer, Rulex Inc. / CNR**
Explored options for speeding up C algorithms with CPU (OpenMP) and GPU (Nvidia CUDA) parallelization. MATLAB algorithms to Python.

Skills

Programming

- C++
- C++/Abseil
- C++/Boost
- Python
- SQL
- Clickhouse SQL
- PostgreSQL
- Java
- Julia
- Go

Universal Tools

- BASH
- Git
- Jenkins CI

Advanced Tools

- Docker
- Terraform
- Helm
- gRPC
- ZeroMQ
- Valgrind
- Flamegraph
- Gstreamer
- Nvidia CUDA
- OpenMP

Platforms

- Linux
- AWS
- Windows
- Nvidia Jetson

Competences

- Testing
- DevOps
- Design Docs
- Embedded Dev.
- Agile Dev.

Languages

- English
- Italiano
- Deutsch
- Français



Formal education

02/24–11/24(exp.)	CAS ETH in Machine Learning in Finance and Insurance, ETH Zürich
2009–2015	Galileian School of Higher Education, University of Padua , Enriching program, 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

Programming languages

Aug 2024	GitHub	J.P. Morgan Python training	React	●●○○○○
Aug 2024	Linkedin	React.js Essential training	Rust	●●●○○○
May 2024	Linkedin	gRPC in Python	C#	●●●○○○
May 2024	Linkedin	Design Patterns for Rust	Financial Python	●●●○○○
Mar 2024	Linkedin	C# and .NET Essential Training	Java	●●●●○○
Jan 2024	Linkedin	Designing RESTful APIs	MATLAB	●●●○○○
Nov 2023	Linkedin	C# Essential Training 1: Types and Control Flow	C Embedded	●●●○○○
Nov 2023	Linkedin	C Programming for Embedded Applications	gRPC	●●○○○○
Oct 2023	Linkedin	Learning MATLAB	REST	●○○○○○
Jan 2023	Linkedin	Rust Essential Training		
Jan 2023	Linkedin	Level Up: Java		
Dec 2022	Linkedin	First Look: Rust		

Design, documentation and communication

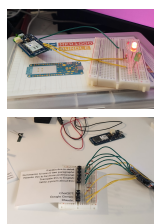
Aug 2024	Linkedin	Communicating Time Boundaries	UML	●●○○○○
Jun 2024	Linkedin	Software Design: Modeling with UML	Business planning	●●●○○○
Feb 2023	Linkedin	Software Architecture: From Developer to Architect	Software Arch.	●●●●○○

Cloud and DevOps

Feb 2023	Linkedin	AWS Certified Solutions Architect - Associate (SAA-C02)	AWS Cloud	●●●●○○
Jan 2023	Linkedin	DevOps Foundations: Going Cloud Native	DevOps	●●●○○○
May 2020	Linkedin	Cloud Architecture: Advanced Concepts (2019)		

Projects

Embedded



Nov 2023	BTC Arduino monitor github.com/Fdondi/arduino-btc Board blinking green for increased bitcoin price, red for decrease. Blinks faster for fast price change.	C++ Embedded	●●●○○○
Aug 2024	AI Keyboard github.com/Fdondi/ai_keyboard A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.	Arduino Embedded Development Electronics Embedded connectivity (USB, WiFi/SSH, Bluetooth LE)	●●○○○○ ●●○○○○ ●●○○○○ ●○○○○○

Competitions

ongoing	Leetcode , https://leetcode.com/u/Fdondi/	
ongoing	Kaggle , https://www.kaggle.com/litecoin	
2024	Codility Pi Challenge , Silver Award	
19-20/Mar/2016	H-Farm, H-Ack Food , Reinventing the 'Bio food' experience.	
12-13/Dec/2015	H-Farm, H-Ack Luxottica , Ideas for the future of glasses.	
2009	Italian Olympics of Mathematics , Gold 🏆	
2008	Italian Olympics of Information Technology , Bronze 🏆	

Personal

Hobbies:
Read, hike, bike, swim.