Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: *dondi.fyi/p/cv_en*

Online (React) version of this CV at: *https://fdondi.github.io/cv-react/*

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⭘ *Fdondi*

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

09/2025 - 11/2025 **Sogtware Engineer** , **Randstad Digital for Google**
Untangling complex legacy data routing in YouTube's backend.

2023-current: AI startups era

03/2025 - 05/2025 **Backend Engineer** , **Hoshii**
Delivered a React webshop, integrating with MongoDb and Go backend, expanding the API as needed. Improved the AI orchestration pipeline.

09/2024 - 01/2025 **Senior Machine Learning Engineer** , **Giotto AI**
Contributed to cutting-edge research tackling the ARC challenge. Especially focused on data augmentation. Extensively used BART for classification, and Pytorch/Lightning for efficient multi-GPU training.

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.

2021-2023: Cloud Data Warehousing arc

03/2023 - 09/2023 **Senior Software Engineer** , **DoubleCloud**
Developed infrastructure around ClickHouse SQL, deploying with SaltStack, 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

2020-2021: Finance interlude

08/2020 - 02/2021 **Software Developer and Quantitative Analyst** , **F-Trust**
- Maintained and developed a Trading Engine (C++)
- redesigned, implemented and migrated storage (PostgreSQL)

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**
Developed a driver (C++) for automotive communications, running also on 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

Languages

C++	●●●●●
Python	●●●●●
Nvidia CUDA	●●●●○
BASH	●●●●○
Go	●●●○○
Java	●●○○○
Julia	●●○○○
C#	●●○○○
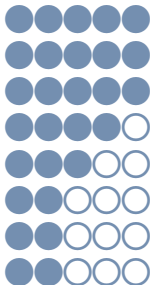
Data Science/ML

SQL	●●●●●
- Clickhouse SQL	●●●●●
- PostgreSQL	●●●●○
MongoDB	●●●○○
Pytorch	●●●○○
TensorFlow	●●●○○
Pandas	●●●○○
Numpy	●●●○○

Development

Git	●●●●●
Cursor	●●●●○
Jenkins CI	●●●○○
Gitlab CI	●●●○○

Web

React	●●●○○
REST API	●●●○○
Gin	●●●○○
gRPC	●●○○○

Cloud

Docker	●●●●●
Terraform	●●○○○
Helm	●○○○○
Linux	●●●●○
AWS	●●●○○
GCloud	●●●○○
Windows	●●●○○

Languages

English	●●●●●
Italiano	●●●●●
Deutsch	●●●○○
Français	●●●○○

Formal education

02/24–11/24	**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	*Linkedin*	**React.js Essential training**	React	●●○○○○
May 2024	*Linkedin*	**gRPC in Python**	Rust	●●●○○○
May 2024	*Linkedin*	**Design Patterns for Rust**	C#	●●●○○○
Mar 2024	*Linkedin*	**C# and .NET Essential Training**	Financial Python	●●●○○○
Jan 2024	*Linkedin*	**Designing RESTful APIs**	Java	●●●●○○
Nov 2023	*Linkedin*	**C Programming for Embedded Applications**	MATLAB	●●●○○○
Oct 2023	*Linkedin*	**Learning MATLAB**	C Embedded	●●●○○○
Jan 2023	*Linkedin*	**Rust Essential Training**	gRPC	●●○○○○
Jan 2023	*Linkedin*	**Level Up: Java**	REST	●○○○○○
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	●●●○○○

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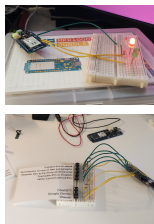
Nov 2023	**BTC Arduino monitor** github.com/Fdondi/arduino-btc	C++ Embedded	●●●○○○
	Board blinking green for increased bitcoin pirce, red for decrease. Blinks faster for fast price change.	Arduino	●●●○○○
Aug 2024	**AI Keyboard** github.com/Fdondi/ai_keyboard	Embedded Dev.	●●○○○○
	A keyboard to perform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

Hackatons

14-16/Nov/2025	**HackaHealth Zürich** , **ETH Student House**	
	Help Patrick paraglide again despite paralysed legs.	
26-27/Sep/2025	**ZurichHack** , **Swiss {ai} Weeks**	
	Mine the Gap: Detect anomalies in an evolving knowledge graph.	
11-12/Sep/2025	**Energy Data Hackdays** , **BKW**	
	Smart Design of Resilient Local Energy Communities	
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.	

Leaderboards/training

- ↑≡ Leetcode
- ↑≡ Kaggle

Books to swear by

- 📖 **Designing Data-Intensive Applications** *Martin Kleppmann*
- 📖 **Kubernetes Patterns** *Bilgin Ibryam, Roland Huß*
- 📖 **Effective Java** *Joshua Bloch*

Personal

Hobbies: Read, hike, bike, swim.

Prizes

2024	**Codility Pi Challenge**, Silver Award
2009	**Italian Olympics of Mathematics**, *Gold* 🏅
2008	**Italian Olympics of Information Technology**, *Bronze* 🎖