

# Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: [dondi.fyi/p/cv\\_en](https://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

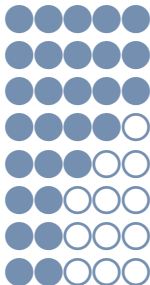


09/2025 - 11/2025	<b>Software Engineer, Randstad Digital for Google</b> Untangling complex legacy data routing in YouTube's backend.
2023-current: AI startups era	
03/2025 - 05/2025	<b>Backend Engineer, Hoshii</b> Delivered a React webshop, integrating with MongoDB and Go backend, expanding the API as needed. Improved the AI orchestration pipeline.
09/2024 - 01/2025	<b>Senior Machine Learning Engineer, Giotto AI</b> 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	<b>Senior Software Engineer, Deep Impact</b> 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	<b>Senior Software Engineer, DoubleCloud</b> Developed infrastructure around ClickHouse SQL, deploying with Salt-Stack, Helm and Terraform. Go for Telegraf plugins.
06/2021 - 09/2022	<b>Senior Software Engineer, Firebolt</b> Developed the SQL optimization engine and testing infrastructure. <ul style="list-style-type: none"><li>Expanded supported SQL syntax and optimizations</li><li>reworked the test framework to support new test suite</li><li>contributed to rewriting to higher standards the optimization engine</li></ul>
2020-2021: Finance interlude	
08/2020 - 02/2021	<b>Software Developer and Quantitative Analyst, F-Trust</b> <ul style="list-style-type: none"><li>Maintained and developed a Trading Engine (C++)</li><li>redesigned, implemented and migrated storage (PostgreSQL)</li></ul>
2017-2020: Google	
10/2017 - 05/2020	<b>Senior Software Developer, Google</b> Within Search, productionized an initially experimental tool (C++). <ul style="list-style-type: none"><li>Improved runtime from days to hours</li><li>added support for new kinds of data</li><li>made the results easily visualizable and monitorable</li><li>made onboarding orders of magnitude faster for most cases</li></ul>
2015-2017: Initial Experiences	
04/2016 - 10/2017	<b>Software Developer, Ascent Software</b> Developed a driver (C++) for automotive communications, running also on and embedded (QNX real-time OS) systems.
04/2015 - 04/2016	<b>Junior Developer, Rulex Inc./CNR</b> 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



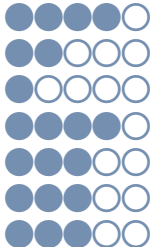
### Web

React  
REST API  
Gin  
gRPC



### Cloud

Docker  
Terraform  
Helm  
Linux  
AWS  
GCloud  
Windows



### Languages

English  
Italiano  
Deutsch  
Français



## Formal education

02/24–11/24	<b>CAS ETH in Machine Learning in Finance and Insurance</b> , <i>ETH Zürich</i>
2009–2015	<b>Galileian School of Higher Education</b> , <i>University of Padua</i> , Enriching program, 98/100
2012–2014	<b>Master Degree in Mathematics</b> , <i>University of Padua</i> , 108/110
2009–2012	<b>Bachelor Degree in Mathematics</b> , <i>University of Padua</i> , 110/110 <i>cum Laude</i>
2004–2009	<b>High School - Science Track</b> , added <b>IT</b> , <b>French</b> , <i>Liceo Fermi</i> , Bologna, 100/100 <i>cum Laude</i>

## Continuous Learning

### Programming languages

Aug 2024	<i>Linkedin</i>	<b>React.js Essential training</b>	React	●●○○○○
May 2024	<i>Linkedin</i>	<b>gRPC in Python</b>	Rust	●●●○○○
May 2024	<i>Linkedin</i>	<b>Design Patterns for Rust</b>	C#	●●●○○○
Mar 2024	<i>Linkedin</i>	<b>C# and .NET Essential Training</b>	Financial Python	●●●○○○
Jan 2024	<i>Linkedin</i>	<b>Designing RESTful APIs</b>	Java	●●●●○○
Nov 2023	<i>Linkedin</i>	<b>C Programming for Embedded Applications</b>	MATLAB	●●●○○○
Oct 2023	<i>Linkedin</i>	<b>Learning MATLAB</b>	C Embedded	●●●○○○
Jan 2023	<i>Linkedin</i>	<b>Rust Essential Training</b>	gRPC	●●○○○○
Jan 2023	<i>Linkedin</i>	<b>Level Up: Java</b>	REST	●○○○○○
Dec 2022	<i>Linkedin</i>	<b>First Look: Rust</b>		

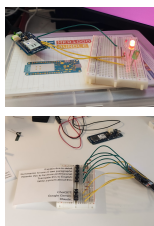
### Design, documentation and communication

Aug 2024	<i>Linkedin</i>	<b>Communicating Time Boundaries</b>	UML	●●○○○○
Jun 2024	<i>Linkedin</i>	<b>Software Design: Modeling with UML</b>	Business planning	●●●○○○

### Cloud and DevOps

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

## Projects



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

## Hackatons

14-16/Nov/2025	<b>HackaHealth Zürich</b> , <b>ETH Student House</b> Help Patrick paraglide again despite paralysed legs.
26-27/Sep/2025	<b>ZurichHack</b> , <b>Swiss {ai} Weeks</b> Mine the Gap: Detect anomalies in an evolving knowledge graph.
11-12/Sep/2025	<b>Energy Data Hackdays</b> , <b>BKW</b> Smart Design of Resilient Local Energy Communities
19-20/Mar/2016	<b>H-Farm</b> , <b>H-Ack Food</b> , Reinventing the 'Bio food' experience.
12-13/Dec/2015	<b>H-Farm</b> , <b>H-Ack Luxottica</b> , Ideas for the future of glasses.

## Prizes

2024	<b>Codility Pi Challenge</b> , Silver Award
2009	<b>Italian Olympics of Mathematics</b> , Gold 🏆
2008	<b>Italian Olympics of Information Technology</b> , Bronze 🏆

## 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.