

Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: dondi.fyi/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 **Software 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 Python 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**
Experience in Computer Vision, both on cloud and edge embedded devices (Nvidia Jetson platform). Contributed by overhauling Docker setup and solving bugs, primarily in Python.

2021-2023: Cloud Data Warehousing arc

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 Python 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

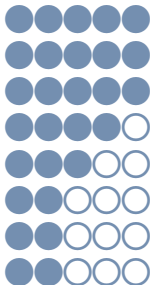
04/2016 - 10/2017 **Software Developer , Ascent Software**
I helped maintain and develop a driver (C++) for automotive communications, running both on regular computers and embedded (QNX real-time OS) systems.

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

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

07/25–11/25 (exp.)	FRM: Financial Risk Manager (Part I) , <i>GARP</i>
02/24–11/24	CAS ETH in Machine Learning in Finance and Insurance , <i>ETH Zürich</i>
2009–2015	Galileian School of Higher Education , <i>University of Padua</i> , Enriching program, 98/100
2012–2014	Master Degree in Mathematics , <i>University of Padua</i> , 108/110
2009–2012	Bachelor Degree in Mathematics , <i>University of Padua</i> , 110/110 cum Laude
2004–2009	High School - Science Track , added IT , French , <i>Liceo Fermi</i> , Bologna, 100/100 cum Laude

Continuous Learning

Programming languages

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

Design, documentation and communication

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

Cloud and DevOps

Jul 2023	<i>Microsoft</i>	AZ-305: Design identity, governance, and monitor solutions on Azure	AWS Cloud	●●●○○○
Feb 2023	<i>Linkedin</i>	AWS Certified Solutions Architect - Associate (SAA-C02)	Azure	●●○○○○
Jan 2023	<i>Linkedin</i>	DevOps Foundations: Going Cloud Native	DevOps	●●○○○○

Projects



Aug 2025	Azure Affirmation website dondi.fyi/affirmation	Azure	●●○○○○
	Azure Static Web App with Azure Function App backend, which offers works of affirmation by either sampling them from a Cosmos MongoDB, or generating through OpenAI API.	Azure Functions	●●○○○○
		Cosmos DB	●●○○○○
		C++ Embedded	●●○○○○
Aug 2024	AI Keyboard github.com/Fdondi/ai_keyboard	Arduino	●●○○○○
	A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.	Electronics	●●○○○○

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.

Prizes

2024	Codility Pi Challenge , Silver Award
2009	Italian Olympics of Mathematics , Gold 🏆
2008	Italian Olympics of Information Technology , 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.