

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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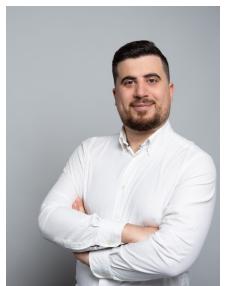
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Fdondi

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), GARP		
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 <i>cum Laude</i>		
2004–2009	High School - Science Track, added IT, French, Liceo Fermi, Bologna , 100/100 <i>cum Laude</i>		

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	Java	● ● ● ● ○
Jan 2024	LinkedIn	Designing RESTful APIs	MATLAB	● ● ● ○ ○
Nov 2023	LinkedIn	C Programming for Embedded Applications	C Embedded	● ● ● ○ ○
Jan 2023	LinkedIn	Rust Essential Training	gRPC	● ● ○ ○ ○
Jan 2023	LinkedIn	Level Up: Java	REST	● ○ ○ ○ ○

Design, documentation and communication

Aug 2024	LinkedIn	Communicating Time Boundaries	UML	● ● ○ ○ ○
Jun 2024	LinkedIn	Software Design: Modeling with UML	Business planning	● ● ● ○ ○

Cloud and DevOps

Jul 2023	Microsoft	AZ-305: Design identity, governance, and monitor solutions on Azure	AWS Cloud	● ● ● ○ ○
Feb 2023	LinkedIn	AWS Certified Solutions Architect - Associate (SAA-C02)	Azure	● ● ● ○ ○
Jan 2023	LinkedIn	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 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.