

# 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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in francesco-dondi

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 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

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

## Continuous Learning

### Programming languages

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

### Design, documentation and communication

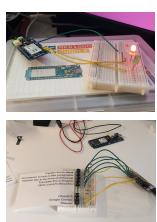
Aug 2024	<i>LinkedIn</i>	<b>Communicating Time Boundaries</b>	UML	
Jun 2024	<i>LinkedIn</i>	<b>Software Design: Modeling with UML</b>	Business planning	
Feb 2023	<i>LinkedIn</i>	<b>Software Architecture: From Developer to Architect</b>	Software Arch.	

### 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

### Embedded



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.
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.

C++	Embedded	
Arduino		
Embedded	Development	
Electronics		
Embedded	connectivity (USB, WiFi/SSH, Bluetooth LE)	

### Competitions

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

**Personal**  
Hobbies:  
Read, hike, bike, swim.