

# Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

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

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

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



## 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)
  - extracted and integrated data from multiple log streams
  - analyzed data to highlight opportunities for improvement (Julia)

## 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.)	<b>FRM: Financial Risk Manager (Part I)</b> , <i>GARP</i>
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 cum Laude
2004–2009	<b>High School - Science Track</b> , added <b>IT</b> , <b>French</b> , <i>Liceo Fermi</i> , Bologna, 100/100 cum Laude

## Continuous Learning

### Programming languages

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

### Design, documentation and communication

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

### Cloud and DevOps

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

## Projects



Aug 2025	<b>Azure Affirmation website</b> <a href="https://dondi.fyi/affirmation">https://dondi.fyi/affirmation</a> 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	●●○○○○
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.	Azure Functions Cosmos DB C++ Embedded Arduino Electronics	●●○○○○ ●●○○○○ ●●○○○○ ●●○○○○ ●●○○○○

## 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</b> , Silver Award
19-20/Mar/2016	<b>H-Farm</b> , <i>H-Ack Food</i> , Reinventing the 'Bio food' experience.
12-13/Dec/2015	<b>H-Farm</b> , <i>H-Ack Luxottica</i> , 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.