

# 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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Fdondi

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



|                                       |  |
|---------------------------------------|--|
| 09/2025 - 11/2025                     | <b>Software Engineer, Randstad Digital for Google</b><br>Untangling complex legacy data routing in YouTube's backend.  |
| 2023-current: AI startups era         |  |
| 03/2025 - 05/2025                     | <b>Backend Engineer, Hoshii</b><br>Delivered a React webshop, integrating with MongoDB and Go backend, expanding the API as needed. Improved the AI Python pipeline.   |
| 09/2024 - 01/2025                     | <b>Senior Machine Learning Engineer, Giotto AI</b><br>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><br>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                     | <b>Senior Software Engineer, DoubleCloud</b><br>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><br>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 Python 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><br>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><br>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                     | <b>Junior Developer, Rulex Inc./CNR</b><br>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#



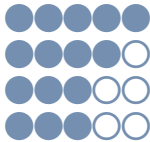
### Data Science/ML

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 | <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>          | Java       | ●●●○○○ |
| Jan 2024 | <i>Linkedin</i> | <b>Designing RESTful APIs</b>                  | MATLAB     | ●●●○○○ |
| Nov 2023 | <i>Linkedin</i> | <b>C Programming for Embedded Applications</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       | ●○○○○○ |

### 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

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

## Projects



|          |  |                 |        |
|----------|--|-----------------|--------|
| Aug 2025 | <b>Azure Affirmation website</b> <a href="https://dondi.fyi/affirmation">dondi.fyi/affirmation</a>   | 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 | <b>AI Keyboard</b> <a href="https://github.com/Fdondi/ai_keyboard">github.com/Fdondi/ai_keyboard</a>   | Arduino         | ●●○○○○ |
|          | A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.  | Electronics     | ●●○○○○ |

## Hackatons

|                |  |
|----------------|--|
| 14-16/Nov/2025 | <b>HackaHealth Zürich, ETH Student House</b>                       |
|                | Help Patrick paraglide again despite paralysed legs.               |
| 26-27/Sep/2025 | <b>ZurichHack, Swiss {ai} Weeks</b>                                |
|                | Mine the Gap: Detect anomalies in an evolving knowledge graph.     |
| 11-12/Sep/2025 | <b>Energy Data Hackdays, BKW</b>                                   |
|                | Smart Design of Resilient Local Energy Communities                 |
| 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.  |

## 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.