

# Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: [dondi.fyi/p/cd\\_en](https://dondi.fyi/p/cd_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



## Who I am

As a seasoned software developer, I bring a wealth of experience in developing robust software solutions. The post-Covid time has been hectic, but the numerous experiences have allowed me to gain familiarity with all kinds of tools and processes. Now, however, I'm aiming at a stable, in-office position where I can grow long-term. I'm known among my peers and supervisors for being a reliable, intelligent, and friendly colleague, one who is always ready to take on responsibility and contribute to the team's success.

## 2020-current: Startup experiences

- 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.
- 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
- 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

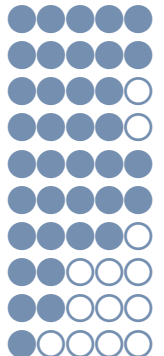
## 2015-2017: Initial Experiences

- 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

### Programming

C++  
- C++/Abseil  
- C++/Boost  
Python  
SQL  
- Clickhouse SQL  
- PostgreSQL  
Java  
Julia  
Go



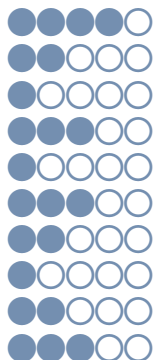
### Universal Tools

BASH  
Git  
Jenkins CI



### Advanced Tools

Docker  
Terraform  
Helm  
gRPC  
ZeroMQ  
Valgrind  
Flamegraph  
Gstreamer  
Nvidia CUDA  
OpenMP



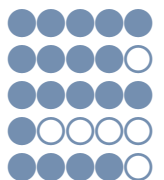
### Platforms

Linux  
AWS  
Windows  
Nvidia Jetson



### Competences

Testing  
DevOps  
Design Docs  
Embedded Dev.  
Agile Dev.



### Languages

English  
Italiano  
Deutsch  
Français



## Formal education

|             |  |
|-------------|--|
| 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 IT, French, <i>Liceo Fermi</i> , Bologna, 100/100 cum Laude |

## Continuous Learning

### Programming languages

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

### Design, documentation and communication

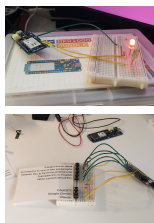
|          |          |  |                   |        |
|----------|----------|--|-------------------|--------|
| Aug 2024 | Linkedin | Communicating Time Boundaries                      | UML               | ●●○○○○ |
| Jun 2024 | Linkedin | Software Design: Modeling with UML                 | Business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

### Cloud and DevOps

|          |          |   |           |        |
|----------|----------|---|-----------|--------|
| Feb 2023 | Linkedin | AWS Certified Solutions Architect - Associate (SAA-C02) | AWS Cloud | ●●●●○○ |
| Jan 2023 | Linkedin | DevOps Foundations: Going Cloud Native                  | DevOps    | ●●●○○○ |
| May 2020 | Linkedin | Cloud Architecture: Advanced Concepts (2019)            |           |        |

## Projects

### Embedded



|          |  |   |                                      |
|----------|--|---|--------------------------------------|
| Nov 2023 | <b>BTC Arduino monitor</b> <a href="https://github.com/Fdondi/arduino-btc">github.com/Fdondi/arduino-btc</a><br>Board blinking green for increased bitcoin price, red for decrease. Blinks faster for fast price change. | C++ Embedded  | ●●●○○○                               |
| Aug 2024 | <b>AI Keyboard</b> <a href="https://github.com/Fdondi/ai_keyboard">github.com/Fdondi/ai_keyboard</a><br>A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.              | Arduino<br>Embedded Development<br>Electronics<br>Embedded connectivity (USB, WiFi/SSH, Bluetooth LE) | ●●○○○○<br>●●○○○○<br>●●○○○○<br>●○○○○○ |

## 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.