

# 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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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++  
Python  
SQL  
- Clickhouse SQL  
- PostgreSQL  
Java  
Julia  
C#  
Go



### Data Science/ML

Pytorch  
TensorFlow  
Pandas  
Numpy



### Universal Tools

Git  
Nvidia CUDA  
BASH  
Jenkins CI



### Advanced Tools

Docker  
Terraform  
Helm  
gRPC



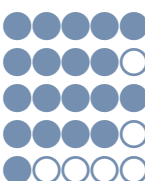
### Platforms

Linux  
AWS  
GCloud  
Windows  
Nvidia Jetson



### Competences

Testing  
DevOps  
Design Docs  
Agile Dev.  
Embedded Dev.



## Languages

English  
Italiano  
Deutsch  
Français



## Formal education

02/2024–10/2024 (exp.)	<b>CAS ETH in Machine Learning in Finance and Insurance</b> , <i>ETH Zürich</i>
01/2023–06/2023	<b>Business Analytics: From Data to Decisions</b> , <i>Imperial College Business School</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 <i>cum Laude</i>
2004–2009	<b>High School - Science Track</b> , added <b>IT</b> , <b>French</b> , <i>Liceo Fermi</i> , Bologna, 100/100 <i>cum Laude</i>

## Continuous Learning

### Data Science/Analytics

Aug 2024	<i>GitHub</i>	<b>J.P. Morgan Python training</b>
Nov 2023	<i>Linkedin</i>	<b>Data Fluency: Exploring and Describing Data</b>
Nov 2023	<i>Linkedin</i>	<b>Power BI Essential Training</b>
Oct 2023	<i>Linkedin</i>	<b>Business Intelligence for Consultants</b>
Oct 2023	<i>Linkedin</i>	<b>Data Analytics for Business Professionals</b>
Oct 2023	<i>Linkedin</i>	<b>Excel: Economic Analysis and Data Analytics</b>
Oct 2023	<i>Linkedin</i>	<b>The Non-Technical Skills of Effective Data Scientists</b>

Data Analysis	●●●○○
Data Visualization	●●●●○
Probability	●●●●○
Microsoft Power BI	●●○○○
Microsoft Excel	●●●●●
Pandas	●●●●○

### Machine Learning/LLMs/AI

Jan 2024	<i>Coursera</i>	<b>Generative AI with Large Language Models</b>
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LLMs	●●○○○
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### Programming languages

Nov 2023	<i>Linkedin</i>	<b>C# Essential Training 1: Types and Control Flow</b>
Oct 2023	<i>Linkedin</i>	<b>Learning MATLAB</b>
Nov 2023	<i>Linkedin</i>	<b>C Programming for Embedded Applications</b>

C#	●●○○○
MATLAB	●●●○○
C Embedded	●●●○○

### Design, documentation and communication

Jun 2024	<i>Linkedin</i>	<b>Software Design: Modeling with UML</b>
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UML	●●○○○
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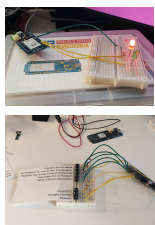
### Cloud and DevOps

Feb 2023	<i>Linkedin</i>	<b>AWS Certified Solutions Architect - Associate (SAA-C02)</b>
Jan 2023	<i>Linkedin</i>	<b>DevOps Foundations: Going Cloud Native</b>

AWS Cloud	●●●●○
DevOps	●●●○○

## 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</b> , <i>Silver Award</i>
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> , <i>Gold</i> 🏆
2008	<b>Italian Olympics of Information Technology</b> , <i>Bronze</i> 🏆

## Personal

Hobbies:  
Read, hike, bike, swim.