

# Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

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



## 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)
  - 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

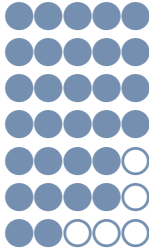
## 2015-2017: Initial Experiences

- 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  
BASH  
Julia



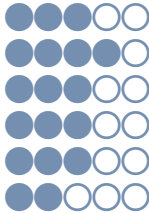
### Data Science

Pandas  
Numpy



### ML

TensorFlow/Keras  
Pytorch  
- Lightning  
Scikit-learn  
Fine-tuning  
LoRAs



### Development

Git  
Cursor  
Jenkins CI  
Gitlab CI



### Cloud

Docker  
Terraform  
Helm  
Linux  
AWS  
GCloud



## Languages

English  
Italiano  
Deutsch  
Français



## Formal education

02/24–10/24	<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

### Google Data Analytics Professional Certificate

Aug 2024	<i>Coursera</i>	<b>Prepare Data For Exploration</b>
July 2024	<i>Coursera</i>	<b>Ask Questions to Make Data-Driven Decisions</b>
Nov 2023	<i>Coursera</i>	<b>Foundations: Data, Data, Everywhere</b>

### Data Science/Analytics

Aug 2024	<i>GitHub</i>	<b>J.P. Morgan Python training</b>
Jan 2024	<i>Linkedin</i>	<b>Data Science Foundations: Knowledge Graphs</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>
Jan 2023	<i>Linkedin</i>	<b>Data Visualizations with Plotly</b>

Data Analysis	
Data Visualization	
Probability	
Microsoft Power BI	
Microsoft Excel	
Pandas	

### Machine Learning/LLMs/AI

Oct 2024	<i>Linkedin</i>	<b>AI Workshop: Build a Neural Network with PyTorch Lightning</b>
Jan 2024	<i>Coursera</i>	<b>Generative AI with Large Language Models</b>
Dic 2023	<i>Linkedin</i>	<b>Advanced Prompt Engineering Techniques</b>

Pytorch Lightning	
LLMs	

### Design, documentation and communication

Aug 2024	<i>Linkedin</i>	<b>Communicating Time Boundaries: A Business English Primer</b>
Jun 2024	<i>Linkedin</i>	<b>Software Design: Modeling with UML</b>
Dec 2023	<i>Linkedin</i>	<b>Marketing Analytics: Setting and Measuring KPIs</b>

UML	
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### Finance/Business

Dec 2023	<i>Linkedin</i>	<b>Financial Forecasting with Analytics Essential Training</b>
Dec 2024	<i>Linkedin</i>	<b>Using Tableau to Discover Powerful Business Insights</b>
Dec 2023	<i>Linkedin</i>	<b>Marketing Analytics: Setting and Measuring KPIs</b>
Oct 2023	<i>Linkedin</i>	<b>Business Intelligence for Consultants</b>
Oct 2023	<i>Linkedin</i>	<b>Data Analytics for Business Professionals</b>

UML	
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## Competitions

ongoing	<b>Kaggle</b> , <a href="https://www.kaggle.com/litecoin">https://www.kaggle.com/litecoin</a>
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.