Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: *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

09/2025 - 11/2025	**Software Engineer, Randstad Digital for Google** Untangling complex legacy data routing in YouTube's backend.

2023-current: AI startups era

03/2025 - 05/2025	**Backend Engineer, Hoshii** Developed and deployed on Kubernetes the AI orchestration pipeline with LangChain. Delivered a React webshop, integrating with MongoDb and Go backend, expanding the API as needed.
09/2024 - 01/2025	**Senior Machine Learning Engineer, Giotto AI** Contributed to cutting-edge AI research tackling the ARC challenge. Especially focused on LLM fine-tuning and data augmentation. PyTorch/Lightning for efficient multi-GPU training.
03/2024 - 05/2024	**Senior Software Engineer, Deep Impact** Experience in the field of Computer Vision, on cloud and edge embedded devices (Nvidia Jetson). Overhauled 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 SaltStack, 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)

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** Developed a driver (C++) for automotive communications, running also on 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 ●●●●○
- LangChain ●●●○○
- LoRAs ●●○○○

Development
- Git ●●●●●
- Cursor ●●●●○
- Jenkins CI ●●●○○
- Gitlab CI ●●●○○

Cloud
- Docker ●●●●○
- Kubernetes ●●●○○
- Terraform ●●○○○
- Helm ●○○○○
- Linux ●●●●○
- AWS ●●●○○
- GCloud ●●●○○

Languages
- English ●●●●●
- Italiano ●●●●●
- Deutsch ●●●○○
- Français ●●●○○

Formal education

02/24–10/24	**CAS ETH in Machine Learning in Finance and Insurance**, *ETH Zürich*
	Both theoretical and hands-on education on Machine Learning techniques; with focus on Banking and Insurance use cases, such as fraud detection, document retrieval and understading, claim evaluation, etc.
01/2023–06/2023	**Business Analytics: From Data to Decisions**, *Imperial College Business School*
2009–2015	**Galileian School of Higher Education**, *University of Padua*, Enriching program, *98/100*
2012–2014	**Master Degree in Mathematics**, *University of Padua*, *108/110*
2009–2012	**Bachelor Degree in Mathematics**, *University of Padua*, *110/110 cum Laude*
2004–2009	**High School - Science Track, added IT, French**, *Liceo Fermi*, Bologna, *100/100 cum Laude*

Continuous Learning

Machine Learning/LLMs/AI

Jul 2025	*Linkedin*	**Introduction to Azure AI Foundry: Exploring Services and Capabilities**
Jul 2025	*Linkedin*	**Spark for Machine Learning & AI**
Jul 2025	*Linkedin*	**Hands-On Introduction: Data Engineering**
Oct 2024	*Linkedin*	**Build a Neural Network with PyTorch Lightning**

- PySpark ●●○○○
- Airflow ●●○○○
- Pytorch Lightning ●●●○○
- LLMs ●●○○○
- Integrated AI solutions ●●○○○

Data Science/Analytics

Aug 2024	*GitHub*	**J.P. Morgan Python training**
Jan 2024	*Linkedin*	**Data Science Foundations: Knowledge Graphs**
Nov 2023	*Linkedin*	**Data Fluency: Exploring and Describing Data**
Nov 2023	*Linkedin*	**Power BI Essential Training**
Oct 2023	*Linkedin*	**Business Intelligence for Consultants**
Oct 2023	*Linkedin*	**Data Analytics for Business Professionals**
Oct 2023	*Linkedin*	**Excel: Economic Analysis and Data Analytics**
Oct 2023	*Linkedin*	**The Non-Technical Skills of Effective Data Scientists**
Jan 2023	*Linkedin*	**Data Visualizations with Plotly**

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

Google Data Analytics Professional Certificate

Aug 2024	*Coursera*	**Prepare Data For Exploration**
July 2024	*Coursera*	**Ask Questions to Make Data-Driven Decisions**
Nov 2023	*Coursera*	**Foundations: Data, Data, Everywhere**

- Data Management ●●●○○
- Data-Driven Decision-Making ●●●○○
- Business Analysis ●●○○○

Finance/Business

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

- Excel ●●●●●
- Tableau ●●○○○
- Statistics ●●●○○

Hackatons

14-16/Nov/2025	**HackaHealth Zürich**, **ETH Student House**
	Help Patrick paraglide again despite paralysed legs.
26-27/Sep/2025	**ZurichHack**, **Swiss {ai} Weeks**
	Mine the Gap: Detect anomalies in an evolving knowledge graph.
11-12/Sep/2025	**Energy Data Hackdays**, **BKW**
	Smart Design of Resilient Local Energy Communities
19-20/Mar/2016	**H-Farm**, **H-Ack Food**, Reinventing the 'Bio food' experience.
12-13/Dec/2015	**H-Farm**, **H-Ack Luxottica**, Ideas for the future of glasses.

Leaderboards/training

⇡ Leetcode

⇡ Kaggle

Personal

Hobbies:
Read, hike, bike, swim.