

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



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**
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

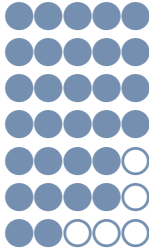
2015-2017: Initial Experiences

- 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 , Rulux 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	PySpark	●●○○○○
Jul 2025	Linkedin	Spark for Machine Learning & AI	Airflow	●●○○○○
Jul 2025	Linkedin	Hands-On Introduction: Data Engineering	Pytorch Lightning	●●○○○○
Oct 2024	Linkedin	AI Workshop: Build a Neural Network with PyTorch Lightning	LLMs	●●○○○○
Jan 2024	Coursera	Generative AI with Large Language Models	Integrated AI solutions	●●○○○○
Dic 2023	Linkedin	Advanced Prompt Engineering Techniques		

Data Science/Analytics

Aug 2024	GitHub	J.P. Morgan Python training	Data Analysis	●●●○○○
Jan 2024	Linkedin	Data Science Foundations: Knowledge Graphs	Data Visualization	●●●○○○
Nov 2023	Linkedin	Data Fluency: Exploring and Describing Data	Probability	●●●○○○
Nov 2023	Linkedin	Power BI Essential Training	Microsoft Power BI	●●○○○○
Oct 2023	Linkedin	Business Intelligence for Consultants	Microsoft Excel	●●●○○○
Oct 2023	Linkedin	Data Analytics for Business Professionals	Pandas	●●●○○○
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		

Google Data Analytics Professional Certificate

Aug 2024	Coursera	Prepare Data For Exploration	Data Management	●●●○○○
July 2024	Coursera	Ask Questions to Make Data-Driven Decisions	Data-Driven	●●●○○○
Nov 2023	Coursera	Foundations: Data, Data, Everywhere	Decision-Making	●●○○○○
			Business Analysis	●●○○○○

Finance/Business

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

Competitions

ongoing	Kaggle, https://www.kaggle.com/litecoin
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.
2009	Italian Olympics of Mathematics, Gold 🏆
2008	Italian Olympics of Information Technology, Bronze 🏆

Personal

Hobbies:
Read, hike, bike, swim.