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 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)
- 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 ●●○○○
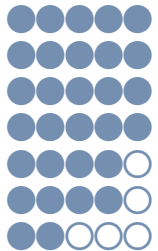
Data Science
- Pandas ●●●●○
- Numpy ●●●●○

ML
- TensorFlow/Keras ●●●○○
- Pytorch ●●●●○
- Lightning ●●●○○
- Scikit-learn ●●●●○
- Fine-tuning ●●●●○
- LangChain ●●●○○
- LoRAs ●●○○○
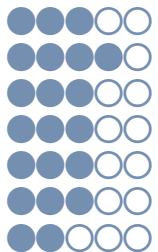
Development
- Git ●●●●●
- Cursor ●●●●○
- Jenkins CI ●●●○○
- Gitlab CI ●●●○○

Cloud
- Docker ●●●●○
- Kubernetes ●●●●○
- Terraform ●●○○○
- Helm ●○○○○
- Linux ●●●●○
- AWS ●●●○○
- GCloud ●●●○○
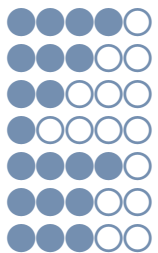
Languages
- English ●●●●●
- Italiano ●●●●●
- Deutsch ●●●○○
- Français ●●●○○

Formal education

02/24–10/24	**CAS ETH in Machine Learning in Finance and Insurance**, *ETH Zürich*	
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

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

Data Science/Analytics

Date	Source	Course	Skill	Level
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

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

Design, documentation and communication

Date	Source	Course	Skill	Level
Aug 2024	*Linkedin*	**Communicating Time Boundaries: A Business English Primer**	UML	●●○○○
Jun 2024	*Linkedin*	**Software Design: Modeling with UML**		

Finance/Business

Date	Source	Course	Skill	Level
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.