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

Who I am

I have had a long career as software developer, but there seems to be only demand by cool startups that don't end up offering a long term perspecive. I'm thus trying to pivot my caeer towards machine learning. 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 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

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 ●●●●○
- Julia ●●○○○
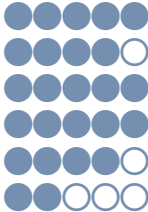
Data Science
- Pandas ●●●●●
- Numpy ●●●●○

ML
- TensorFlow/Keras ●●●○○
- Pytorch ●●●●○
- - Lightning ●●●○○
- Scikit-learn ●●●○○
- Fine-tuning ●●●●○
- LoRAs ●●○○○
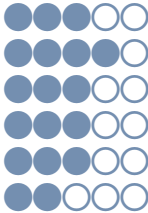
Platforms
- Linux ●●●●●
- AWS ●●●●○
- Windows ●●●○○
- Nvidia Jetson ●●○○○
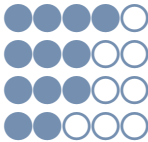
Competences
- Testing ●●●●●
- DevOps ●●●●○
- Design Docs ●●●●●
- Embedded Dev. ●○○○○
- Agile Dev. ●●●●●

Universal Tools
- BASH ●●●●○
- Git ●●●●●
- Jenkins CI ●●●○○

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

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 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**		

Machine Learning/LLMs/AI

Oct 2024	*Linkedin*	**AI Workshop: Build a Neural Network with PyTorch Lightning**	Pytorch Lightning	●●●○○
Jan 2024	*Coursera*	**Generative AI with Large Language Models**	LLMs	●●○○○
Dic 2023	*Linkedin*	**Advanced Prompt Engineering Techniques**		

Design, documentation and communication

Aug 2024	*Linkedin*	**Communicating Time Boundaries: A Business English Primer**	UML	●●○○○
Jun 2024	*Linkedin*	**Software Design: Modeling with UML**		
Dec 2023	*Linkedin*	**Marketing Analytics: Setting and Measuring KPIs**		

Finance/Business

Dec 2023	*Linkedin*	**Financial Forecasting with Analytics Essential Training**	UML	●●○○○
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**		

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.