

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 perspective. 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 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
- 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 , <i>ETH Zürich</i>
01/2023–06/2023	Business Analytics: From Data to Decisions , <i>Imperial College Business School</i>
2009–2015	Galileian School of Higher Education , <i>University of Padua</i> , Enriching program, 98/100
2012–2014	Master Degree in Mathematics , <i>University of Padua</i> , 108/110
2009–2012	Bachelor Degree in Mathematics , <i>University of Padua</i> , 110/110 <i>cum Laude</i>
2004–2009	High School - Science Track , added IT , French , <i>Liceo Fermi</i> , Bologna, 100/100 <i>cum Laude</i>

Continuous Learning

Google Data Analytics Professional Certificate

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

Data Science/Analytics

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

Data Analysis	
Data Visualization	
Probability	
Microsoft Power BI	
Microsoft Excel	
Pandas	

Machine Learning/LLMs/AI

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

Pytorch Lightning	
LLMs	

Design, documentation and communication

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

UML	
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Finance/Business

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

UML	
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Competitions

ongoing	Kaggle , https://www.kaggle.com/litecoin
19-20/Mar/2016	H-Farm , <i>H-Ack Food</i> , Reinventing the 'Bio food' experience.
12-13/Dec/2015	H-Farm , <i>H-Ack Luxottica</i> , Ideas for the future of glasses.
2009	Italian Olympics of Mathematics , <i>Gold</i> 🏆
2008	Italian Olympics of Information Technology , <i>Bronze</i> 🏆

Personal

Hobbies:
Read, hike, bike, swim.