

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/>

Zugerstarsse 66, 8810 Horgen, ZH

📞 +41 76 456 50 32

✉️ francesco314@gmail.com

in francesco-dondi

🌐 Fdondi

Born 29/10/1990

Italian citizen, C permit

Married, no children



Who I am

Ten years ago code was opening dazzling perspectives, now it's data pipelines and machine learning. Building on my solid programming experience, and my diverse professional background giving me the experience to be immediately effective with all types of tools and processes, I'm very excited to pivot to this new world. 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

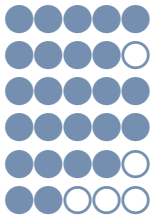
2015-2017: Initial Experiences

- 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



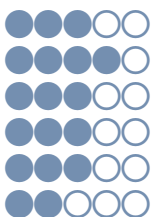
Data Science

Pandas
Numpy



ML

TensorFlow/Keras
Pytorch
- Lightning
Scikit-learn
Fine-tuning
LoRAs



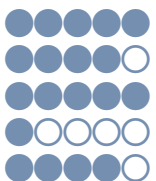
Platforms

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

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|-----------------|---|
| 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

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|-----------|----------|--|
| 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

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| 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 |

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

Machine Learning/LLMs/AI

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|----------|----------|---|
| Oct 2024 | LinkedIn | AI Workshop: Build a Neural Network with PyTorch Lightning |
| Jan 2024 | Coursera | Generative AI with Large Language Models |
| Dic 2023 | LinkedIn | Advanced Prompt Engineering Techniques |

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|-------------------|-------|
| Pytorch Lightning | ●●●○○ |
| LLMs | ●●○○○ |

Design, documentation and communication

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|----------|----------|---|-----|-------|
| 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

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|----------|----------|--|-----|-------|
| 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

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|----------------|---|
| 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.