Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at: dondi.fyi/cv_en

Online (React) version of this CV at: https://fdondi.github.io/cv-react/

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in francesco-dondi

⭘ Fdondi

Born 29/10/1990
Italian citizen, C permit
Married, no children

2023-current: AI startups era

03/2025 - 05/2025 — **Backend Engineer** , **Hoshii**
Delivered a React webshop, integrating with MongoDb and Go backend, espanding the API as needed. Improved the AI orchestration pipeline.

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.

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 ●●●●○
- Java ●●○○○
- Julia ●●○○○
- C# ●●○○○
- Go ●○○○○

Data Science/ML
- Pytorch ●●●●○
- TensorFlow ●●●○○
- Pandas ●●●○○
- Numpy ●●●○○

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

Advanced Tools
- Docker ●●●●○
- Terraform ●●○○○
- Helm ●○○○○
- gRPC ●●●○○

Platforms
- Linux ●●●●○
- AWS ●●●○○
- GCloud ●●●○○
- Windows ●●●○○
- Nvidia Jetson ●●○○○

Competences
- Testing ●●●●○
- DevOps ●●●●○
- Design Docs ●●●●○
- Agile Dev. ●●●○○
- Embedded Dev. ●○○○○

Languages
- English ●●●●●
- Italiano ●●●●●
- Deutsch ●●●○○
- Français ●●●○○
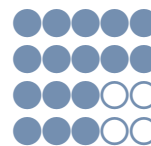
Formal education

02/2024–10/2024	**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

Data Science/Analytics

Aug 2024	*GitHub*	**J.P. Morgan Python training**	Data Analysis	●●●○○
Nov 2023	*Linkedin*	**Data Fluency: Exploring and Describing Data**	Data Visualization	●●●●○
Nov 2023	*Linkedin*	**Power BI Essential Training**	Probability	●●●●○
Oct 2023	*Linkedin*	**Business Intelligence for Consultants**	Microsoft Power BI	●●○○○
Oct 2023	*Linkedin*	**Data Analytics for Business Professionals**	Microsoft Excel	●●●●●
Oct 2023	*Linkedin*	**Excel: Economic Analysis and Data Analytics**	Pandas	●●●●○
Oct 2023	*Linkedin*	**The Non-Technical Skills of Effective Data Scientists**		

Machine Learning/LLMs/AI

Jan 2024	*Coursera*	**Generative AI with Large Language Models**	LLMs	●●○○○

Programming languages

Nov 2023	*Linkedin*	**C# Essential Training 1: Types and Control Flow**	C#	●●○○○
Oct 2023	*Linkedin*	**Learning MATLAB**	MATLAB	●●●○○
Nov 2023	*Linkedin*	**C Programming for Embedded Applications**	C Embedded	●●●○○

Design, documentation and communication

Jun 2024	*Linkedin*	**Software Design: Modeling with UML**	UML	●●○○○

Cloud and DevOps

Feb 2023	*Linkedin*	**AWS Certified Solutions Architect - Associate (SAA-C02)**	AWS Cloud	●●●●○
Jan 2023	*Linkedin*	**DevOps Foundations: Going Cloud Native**	DevOps	●●●○○

Projects

Embedded

	Nov 2023	**BTC Arduino monitor** github.com/Fdondi/arduino-btc Board blinking green for increased bitcoin pirce, red for decrease. Blinks faster for fast price change.	C++ Embedded ●●●○○ Arduino ●●○○○
	Aug 2024	**AI Keyboard** github.com/Fdondi/ai_keyboard A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.	Embedded Development ●●○○○ Electronics ●●○○○ Embedded connectivity (USB, WiFi/SSH, Bluetooth LE) ●○○○○

Competitions

ongoing	**Leetcode**, *https://leetcode.com/u/Fdondi/*
ongoing	**Kaggle**, *https://www.kaggle.com/litecoin*
2024	**Codility Pi Challenge**, *Silver Award*
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.