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/

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

2023-current: AI startups era

03/2025 - 05/2025 — **Backend Engineer** , **Hoshii**
Delivered a React webshop, integrating with MongoDb and Go backend, expanding the API as needed. Improved the AI Python 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**
Experience in Computer Vision, both on cloud and edge embedded devices (Nvidia Jetson platform). Contributed by overhauling Docker setup and solving bugs, primarily in Python.

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 Python 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
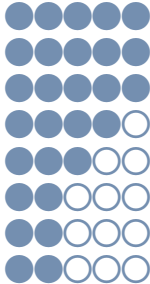- made onboarding orders of magnitude faster for most cases

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

Languages

C++	●●●●●
Python	●●●●●
Nvidia CUDA	●●●●○
BASH	●●●●○
Go	●●●○○
Java	●●○○○
Julia	●●○○○
C#	●●○○○

Data Science/ML

SQL	●●●●●
- Clickhouse SQL	●●●●●
- PostgreSQL	●●●●○
MongoDB	●●●○○
Pytorch	●●●○○
TensorFlow	●●●○○
Pandas	●●●○○
Numpy	●●●○○

Development

Git	●●●●●
Cursor	●●●●○
Jenkins CI	●●●○○
Gitlab CI	●●●○○

Web

React	●●●○○
REST API	●●●○○
Gin	●●●○○
gRPC	●●●○○

Cloud

Docker	●●●●●
Terraform	●●○○○
Helm	●○○○○
Linux	●●●●○
AWS	●●●○○
GCloud	●●●○○
Windows	●●●○○

Languages

English	●●●●●
Italiano	●●●●●
Deutsch	●●●○○
Français	●●●○○

Formal education

07/25–11/25 (exp.)	**FRM: Financial Risk Manager (Part I)**, *GARP*
02/24–11/24	**CAS ETH in Machine Learning in Finance and Insurance**, *ETH Zürich*
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

Programming languages

Aug 2024	*GitHub*	**J.P. Morgan Python training**	React	●●○○○
Aug 2024	*Linkedin*	**React.js Essential training**	Rust	●●●○○
May 2024	*Linkedin*	**gRPC in Python**	C#	●●●○○
May 2024	*Linkedin*	**Design Patterns for Rust**	Financial Python	●●●○○
Mar 2024	*Linkedin*	**C# and .NET Essential Training**	Java	●●●●○
Jan 2024	*Linkedin*	**Designing RESTful APIs**	MATLAB	●●●○○
Nov 2023	*Linkedin*	**C# Essential Training 1: Types and Control Flow**	C Embedded	●●●○○
Nov 2023	*Linkedin*	**C Programming for Embedded Applications**	gRPC	●●○○○
Oct 2023	*Linkedin*	**Learning MATLAB**	REST	●○○○○
Jan 2023	*Linkedin*	**Rust Essential Training**		
Jan 2023	*Linkedin*	**Level Up: Java**		

Design, documentation and communication

Aug 2024	*Linkedin*	**Communicating Time Boundaries**	UML	●●○○○
Jun 2024	*Linkedin*	**Software Design: Modeling with UML**	Business planning	●●●○○
Feb 2023	*Linkedin*	**Software Architecture: From Developer to Architect**	Software Arch.	●●●●○

Cloud and DevOps

Jul 2023	*Microsoft*	**AZ-305: Design identity, governance, and monitor solutions on Azure**	AWS Cloud	●●●●○
			Azure	●●○○○
Feb 2023	*Linkedin*	**AWS Certified Solutions Architect - Associate (SAA-C02)**	DevOps	●●●○○
Jan 2023	*Linkedin*	**DevOps Foundations: Going Cloud Native**		

Projects

	Aug 2025	**Azure Affirmation website** dondi.fyi/affirmation Azure Static Web App with Azure Function App backend, which offers works of affirmation by either sampling them from a Cosmos MongoDB, or generating through OpenAI API.	Azure Azure Functions Cosmos DB	●●○○○ ●●○○○ ●●○○○
	Aug 2024	**AI Keyboard** github.com/Fdondi/ai_keyboard A keyboard to perform various operations with LLMs with one click. Working on Bluetooth connection.	C++ Embedded Arduino Electronics	●●●○○ ●●○○○ ●●○○○

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.