

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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Fdondi

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



Who I am

As a seasoned software developer, I bring a wealth of experience in developing robust software solutions. The post-Covid time has been hectic, but the numerous experiences have allowed me to gain familiarity with all kinds of tools and processes. Now, however, I'm aiming at a stable, in-office position where I can grow long-term. 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 - current **Senior Machine Learning Engineer, Giotto AI**
(2mo. contract) Contributing to cutting-edge machine learning research through code improvements and multi-GPU deployments.
- 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++
- C++/Abseil
- C++/Boost
- Python
- SQL
- Clickhouse SQL
- PostgreSQL
- Java
- Julia
- Go

Universal Tools

- BASH
- Git
- Jenkins CI

Advanced Tools

- Docker
- Terraform
- Helm
- gRPC
- ZeroMQ
- Valgrind
- Flamegraph
- Gstreamer
- Nvidia CUDA
- OpenMP

Platforms

- Linux
- AWS
- Windows
- Nvidia Jetson

Competences

- Testing
- DevOps
- Design Docs
- Embedded Dev.
- Agile Dev.

Languages

- English
- Italiano
- Deutsch
- Français



Formal education

02/2024–10/2024 (exp.)	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

Data Science/Analytics

Aug 2024	<i>GitHub</i>	J.P. Morgan Python training
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

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

Machine Learning/LLMs/AI

Jan 2024	<i>Coursera</i>	Generative AI with Large Language Models
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LLMs	●●○○○
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Programming languages

Nov 2023	<i>Linkedin</i>	C# Essential Training 1: Types and Control Flow
Oct 2023	<i>Linkedin</i>	Learning MATLAB
Nov 2023	<i>Linkedin</i>	C Programming for Embedded Applications

C#	●●○○○
MATLAB	●●●○○
C Embedded	●●●○○

Design, documentation and communication

Jun 2024	<i>Linkedin</i>	Software Design: Modeling with UML
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UML	●●○○○
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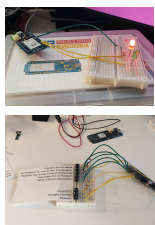
Cloud and DevOps

Feb 2023	<i>Linkedin</i>	AWS Certified Solutions Architect - Associate (SAA-C02)
Jan 2023	<i>Linkedin</i>	DevOps Foundations: Going Cloud Native

AWS Cloud	●●●●○
DevOps	●●●○○

Projects

Embedded



Nov 2023	BTC Arduino monitor github.com/Fdondi/arduino-btc Board blinking green for increased bitcoin price, red for decrease. Blinks faster for fast price change.
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	●●○○○
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 , <i>Silver Award</i>
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.