Francesco Dondi

The guarantee of experience, the enthusiasm for good engineering.

Latest version of this CV at:
github.com/Fdondi/cv-latex/blob/main/cv_en.pdf

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
francesco-dondi
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 numrous expeiences 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 (2mo. contract)
Senior Machine Learning Engineer, **Giotto AI**
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 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

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**, *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**
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**

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

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**
Oct 2023	*Linkedin*	**Learning MATLAB**
Nov 2023	*Linkedin*	**C Programming for Embedded Applications**

C# ●●○○○
MATLAB ●●●○○
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)**
Jan 2023	*Linkedin*	**DevOps Foundations: Going Cloud Native**

AWS Cloud ●●●●●
DevOps ●●●○○

Projects

Embedded
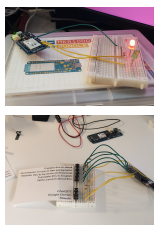
Nov 2023   **BTC Arduino monitor** github.com/Fdondi/arduino-btc
Board blinking green for increased bitcoin pirce, red for decrease. Blinks faster for fast price change.

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**, *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.