



Matteo Di Fabio

Software Engineer

 8 April 1995

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 Frequel

 [/in/matteo-di-fabio/](#)

About me

Young professional with a keen interest in technology, music, video games, sports and travel. Develops from early on a strong interest in technology that led him to undertake the course of studies in Software Engineer at the Polytechnic of Turin, during which he did two internships in which he began to understand the world of work of Software Developers. Driven by his strong interest in IT and technology at the end of his studies, he decided to pursue the Cybersecurity Engineer career path. Currently working in the automotive world, he wants to explore other fields and is looking for the right opportunity to show both his skills and enthusiasm. Quick learner, fast thinker, creative talented, great team worker and effective problem solver with a remarkable sense of adaption. Experiences abroad enable a wider sense of perspective over issues which lead to strong organizational capabilities and result-driven attitude. Known for honesty, integrity and taking ethical obligations quite seriously. Time flexibility will ensure that organizational needs are met.

Experience

since May 2023

DriveSec

Torino – Italy

Software Engineer. Design and developing of WeSeTh framework:

- Developing Weseth, an infrastructure for automating remote IoT penetration tests using TypeScript, Rust, Go, and Docker.
- Implement cloud services with AWS and manage version control with Bitbucket.
- Focus on creating scalable, efficient solutions to enhance IoT security testing.

Mar 2022 - May 2023

FPT Industrial

Torino – Italy

Cybersecurity Engineer. Design of eAxe TCU Cybersecurity:

- Facilitate interactions with customers and suppliers to define and implement cyber security goals and requirements, support internal design and verification activities and collaborate with cross-functional teams, including functional safety and FMEA teams, throughout product development.
- Review deliverables and workproducts to assure FPT Industrial requirements are supported
- Coach engineering teams on cyber security topics and best practices
- Actively participate in cybersecurity workgroups, as assigned, to support development or improvement in processes.

Feb 2022 - May 2023

MCA Engineering

Torino – Italy

Software Engineer consultant.

Jun 2021 - Mar 2022

Marshmallow Games (Internship)

Bari – Italy

Development of open-ended dynamics with the aim of creating an interaction system between game objects for the creation of applied games that aim at STEM education for children.

- Unity 3D + C#, Unity Canvas, Unity 2D
- Drag & Drop design
- Interaction system between objects
- Playable Demo Game

Oct 2017 - Mar 2018

Ubiatar (Internship)

Torino – Italy

Developing feature for the Android Ubiatar app using react native and FFmpeg framework and javascript programming language.

- Research and application for a double connection via android smartphone (Wi-Fi -> GoPro, Data-> Internet)
- Management of the app notification system (front end - JS+React Native)

Language

Italian

English

Portuguese

Spanish

(*)[The language scale is from 0 (Fundamental Awareness) to 5 (Native/C2).]

Soft Skills

Flexibility

Adaptability

Problem-Solving

Empathy

Integrity

Organization

Critical Thinking

Teamwork

Education

2018 - 2022

Master's Degree in Software Engineering
Politecnico di Torino - Italy

108/110

2020 - 2021

International extra UE program
UNICAMP - University of Campinas - Brazil

2014-2018

Bachelor's Degree in Computer Engineering
Politecnico di Torino - Italy

2009-2014

High School Diploma P.N.I.
Liceo Scientifico Leonardo Da Vinci Pescara - Italy

Computer Skills

Operating System

Windows

GNU+Linux (Debian&Ubuntu Distros)

Programming Language

C

C++

C#

Python

Rust

Bash

TypeScript

DevOps & Tools

GIT

Docker

Bitbucket (Pipeline and Git)

APIs & Frameworks

MQTT

Node.js

TypeORM

Query Languages

SQL

Open Cypher

Cloud Services

AWS EC2

AWS S3

AWS Lambda

AWS IoT Core

AWS Neptune

AWS ECR

AWS DynamoDB

Libre Office Suite, Microsoft Office Suite

Visual Studio Code

Visual Studio 2019&2022

Others

ECDL Full Standard, PC Hardware assembly and configuration skills.

Previous Experience

Java, PHP, 8086 Assembly, Arduino, Cup Parser, JFlex scanner, ARM Assembly (Cortex-M3), JavaScript, Code::Blocks, Eclipse, OBS Studio, Matlab, Unity3D, OpenGL, GLSL, FFmpeg, WINAPI32, LinuxAPI, React Native

Interests







Volunteer

- Scouts (AGESCI)
- Village Festivals

Agonistic Sports

- Rugby 2008 - 2014
- Football (Socc.) 2001 - 2009

Hobbies

-  Films, TV Series, Anime
-  Soccer
-  Music
-  Travel
-  Videogames
-  Trekking

University Projects

@ UNICAMP University of Campinas - Brazil

Snake RL - 2021

- Teamwork
- Reinforcement Learning Agent playing the game "Snake" with different approach (Monte-Carlo, Sarsa, Q-learning, DQN, A2C) - [link](#)

Affective Computing article on medium - 2020

- Writing an article on affective computing to be published in a medium
- Should we replicate the human mind? - [link](#)

Cyber Security Experiments - 2020

- Cyber Security assignment that requested to practice with MITM, Brute force, HTTP Dissector, Data Injection and others kind of cyber-attack developed in C and Python. - [link](#)

Detection, tracking and location of runways on visual approaches - 2020

- Teamwork
- Given a picture of a flight landing approach, identifies and isolates the runway in question and detect the airplane position from it. - [link](#)

@ Politecnico di Torino - Italy

Handicap lift platform - 2020

- Program for the LandTiger Board that permits to reproduce the behaviour of the elevator using C and ARM Assembly - [link](#)

LaTazza - 2019

- Teamwork
- LaTazza is a desktop application that helps employees in a work environment to manage the sale and the supply of coffee and other beverages capsules. - [link](#)

Flight ticket booking website - 2019

- Website to manage the booking system of a flight using HTLM, CSS, JavaScript, PHP and SQL. It includes the developing of the database, login and registration system and the web interface. - [link](#)

Wine Company - Information system analysis - 2018

- Teamwork
- Information system project where we modeled the Business/Information system brought introducing IoT resources in a wine company.

Personal Projects

Wake On Lan Bridge

- Create a bridge using an ESP32 (or ESP8266) that can send Wake-on-LAN (WOL) magic packets to specific devices on your local network. The bridge can be controlled using Alexa voice commands or a Telegram bot, enabling you to remotely wake your computers or other devices. - [link](#)

LaTeX CV

- My personal fork of a project to build a CV using LaTeX - [link](#)