Federico **Gianno**

Computer Engineer · Software

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"The difference between insanity and genius is measured only by success and failure."

Summary

I was born on 12 September 1995 in Treviso (TV), in the north east of Italy, but I grown up in Noto (SR), in Sicily.

Undergraduate Computer Engineer, M.Sc. in Computer Software Engineering at Politecnico di Torino. Passionate about Optimization Methods and Algorithms, Machine Learning, Data Science and Clouds. Oriented toward challenges that require strong problem solving skills.

Always improving soft skills and teamwork attitude.

Skills

High level languages	C, C++, C#, Python, Java
Low level languages	Assembly x86, ARM, MIPS
Scripting languages	Bash, AWK
Specific Domain	Matlab, SQL
Web	HTML5, CSS, jQuery, JavaScript, PHP
Tools	Git, Docker

Education

Liceo Superiore "Ettore Majorana" — *Noto (SR), Sicily*

High school diploma — *2009 - 2014*

- Scientific high school diploma, 93

Politecnico di Torino — *Turin, Piedmont*

Bachelor of Engineering - BE — *2014 - 2017*

- Computer Engineering

Politecnico di Torino — *Turin, Piedmont*

Master's degree — *2017 - Exp. 2019*

- Computer Software Engineering

Experience

Work Experience

Tutor — *Turin, Piedmont*

Computer Technology and Maths — *Jan 2016 - PRESENT*

- Private Lessons for high school students about computer technology and Maths.

Competitive swimmer — *Turin, Piedmont*

CNT - Centro Nuoto Torino — *Sept 2009 - Apr 2015*

- Regional champion undefeated for 5 years with two still unbeaten regional records (100m and 200m breaststroke Cat. Juniores, Cadets)
- Five national finals
- Two participation in international championship

Other Experience

"Hello Bot!" - Hackathon — *Turin, Piedmont*

HKN PoliTO - Mu Nu Chapter — *11 Nov 2017 - 12 Nov 2017*

- Winner of the Hackathon
- Python telegram BOT developed in 24h with a final presentation to several companies

Reply Code Challenge - Hackathon

Turin, Piedmont

Reply - 'Code Masters Team of Reply'

15 Mar 2018

- Participation in the Hackathon
- Plan the solution of a logical-mathematical problem in any programming language.

Projects

Examination Timetabling

Turin

Project for "Optimization Methods and Algorithms"

Oct 2017 - Jan 2018

- The aim is to assign time-slots and resources to the meetings in order to satisfy the constraints as much as possible using meta-heuristics algorithm.

ETS - ESP32 Tracking system

Turin

Project for the course "Programmazione di sistema"

Jul 2018 – Oct 2018

- The purpose of the project is to sniff probe request packets sent by smart-phones that are looking for a Wi-Fi connection. From each sniffed packet some information will be extracted and elaborated in order to do several analysis.

Study and design data models for NFV and SDN architectures

Turin

Special project of "Distributed programming 2"

Oct 2018 - Mar 2019

- Data format (described by means of an XML schema) for the representation of all the most relevant information in the NFV (Network Function Virtualization) and SDN (Software Defined Networking) contexts.

Writing

Wordlist generator

GitHub

Personal Project

Sept 2015 - Jan 2016

- Make customized wordlist through a variety of methods.
- Useful for penetration-testing.
- Dictionary toll for dictionary attack.

Python Telegram BOT

GitHub

Personal Project

Oct 2017

- A guide on how to create, configure, code and use a Python BOT for Telegram.

C++ Thread Pool

GitHub

Personal Project

Oct 2018

- More threads access at the same data structure and the concurrency is managed by condition variable, lock (lock guard and unique lock) and mutex.

Genetic Algorithm

Soon on GitHub

Personal Project

Nov 2018 - PRESENT

- Genetic Algorithm to find a solution to the traveling salesman problem. GAs are a good approach to solving search and optimization problems.

Machine Learning

Soon on GitHub

Personal Project

Oct 2018 - Jan 2019

- PCA: application of PCA applied on images. It shows what happens if different Principal Components (PC) are chosen as basis for images representation and classification. Then, will be chosen and applied a classifier (Bayes) in order to classify the images under different PC re-projection.
- SVM: the purpose is to plot data item as a point in n-dimensional space with the value of each feature being the value of a particular coordinate. Then, perform classification by finding the hyper-plane that differentiate the two classes.
- Deep leanring: implement a Convolutional Neural Network on a big image dataset. Training and testing on CIFAR 100 dataset

Extracurricular Activity

Deep Learning

Udemy course

- Data Science: Natural Language Processing (NLP) in Python
- Modern Deep Learning in Python
- Deep Learning: Convolutional Neural Networks in Python

Ethical Hacking

Udemy course

- Learn Ethical Hacking From Scratch
- The Complete Nmap Ethical Hacking Course : Network Security

Honors & Awards

Swim

2014	**Semifinalist**, Sette colli - International swimming	*Rome, Italy*
2014	**3th Place**, Italian swimming championship	*Rome, Italy*
2013	**4th Place**, Italian swimming championship	*Rome, Italy*
2012	**5th Place**, Italian swimming championship	*Rome, Italy*
2012	**1st Place**, Jeux des îles - International swimming (Cat. Juniores)	*Palermo, Italy*
2011-2015	**1st Place**, Regional championship	*Sicily, Italy*

Hackathon

2018	**Participant**, Reply Code Challenge	*Turin, Piedmont*
2017	**1st Place**, HKN Hackathon	*Turin, Piedmont*

Languages

Italian, Mother-tongue
English, B2, Level attested by IELTS Certificate - British Council
French, A2