

# Federico **Gianno**

· COMPUTER SOFTWARE ENGINEER ·

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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 of Italy, but I grown up in Noto (SR), in Sicily.

Undergraduate Computer Engineer, Msc student currently at second year of Computer Engineering at the Polytechnic University of Turin. Passionate about Optimization Methods and Algorithms, Machine Learning, Data Science, Clouds. Oriented toward challenges that require strong problem solving skills.

Always improving soft skills and teamwork attitude.

## Skills

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

## Experience

### WORK EXPERIENCE

#### Tutor

COMPUTER TECHNOLOGY AND MATHS

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

*Turin, Piedmont*

*Jan 2016 - PRESENT*

#### Competitive swimmer

CNT - CENTRO NUOTO TORINO

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

*Turin, Piedmont*

*Sep 2009 - Apr 2015*

### OTHER EXPERIENCE

#### "Hello Bot!" Hackathon

HKN POLITICO - MU NU CHAPTER

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

*Turin, Piedmont*

*11 Nov 2017 - 12 Nov 2017*

## Education

#### Liceo Superiore "Ettore Majorana"

HIGH SCHOOL DIPLOMA

- Scientific high school diploma, 93

*Noto (SR), Sicily*

*2009 - 2014*

#### Polytechnic University of Turin

BACHELOR'S DEGREE

- Computer Engineering

*Turin, Piedmont*

*2014 - 2017*

#### Polytechnic University of Turin

MASTER'S DEGREE

- Computer Software Engineering

*Turin, Piedmont*

*2017 - Exp. 2019*

## 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

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### Wordlist generator

GitHub

PERSONAL PROJECT

Sep 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.

## Extracurricular Activity

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### 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

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### SWIM

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

### HACKATHON

2018	<b>Participant</b> , Reply Code Challenge	Turin, Piedmont
2017	<b>1st Place</b> , HKN Hackathon	Turin, Piedmont

## Languages

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**Italian**, Mother-tongue

**English**, B2, Level attested by IELTS Certificate

**French**, A2