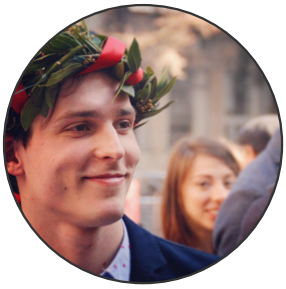

Federico **Gianno**

Computer Engineer · Software & Data Science Expert

DoB: 12/09/95

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M.Sc. student in Computer Engineering - Software at Politecnico di Torino. Passionate about Optimization Methods and Algorithms, Machine Learning, Deep Learning, Big Data and Data Science. Oriented toward challenges that require strong problem solving skills. Always improving soft skills and teamwork attitude.

Experience

Tutor — *Turin, Piedmont*

Computer Technology and Maths — *Jan 2016 - May 2019*

- Provided private lessons, regarding maths and computer technology, to high school students.

Competitive swimmer — *Syracuse, Sicily & Turin, Piedmont*

Gemini & CNT (Centro Nuoto Torino) — *Sept 2009 - Apr 2015*

- Regional champion undefeated for 5 years.
- Five national finals and participated twice in international finals.

Junior Software Engineer — *Nice Area, France*

Alten — *Sept 2019 - PRESENT*

- Six month period in Amadeus to develop the next generation re-accommodation product: Amadues Passenger Recovery.

Education

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

High school diploma — *2009 - 2014*

- Scientific high school diploma, 93/100

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

Skills

Domain Knowledge	Machine Learning, Deep Learning, Cryptography, Operating System, Multithread Programming
Programming languages	C, C++, C#, Python, Java, Bash, AWK, Assembly 8086, ARM, Matlab, SQL, JS, PHP, HTML, CSS
Libraries & Frameworks	NumPy, PyTorch, Scikit-learn, Matplotlib, Pillow
Tools	Git, Docker, JetBrains IDE, Eclipse, XAMP, Trello, Visual Studio, Android Studio

Projects

Wordlist generator — *GitHub*

Personal Project — *Sept 2015 - Jan 2016*

- Make customized wordlist through a variety of methods based on recursive and combinatorial algorithms.
- Useful for brute force attack (or dictionary attack).

WeStudyBOT — *GitHub*

Hackahton Project — *Nov. 2017*

- Python telegram BOT designed to facilitate the study of students developed for a competition.

Python Telegram BOT — *GitHub*

Personal Project — *Oct 2017*

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

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.

Examination Timetabling

GitHub

Project for the "Optimization Methods and Algorithms" course — *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

GitHub

Project for the "Programmazione di sistema" course — *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.
- After each minute these information are sent to a server and processed. Then is possible to see the processed information (position, time frequency and etc.) through a GUI.

Study and design data models for NFV and SDN architectures

Soon on GitHub

Special project fot the "Distributed programming 2" course — *Oct 2018 - Mar 2019*

- Collaboration with NetGroup PoliTO (Computer Networks Group at Politecnico di Torino).
- 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.
- RESTful web service that permits to store and retrieve the NFV/SDN information.

Machine Learning

GitHub

Academic Project — *Oct 2018 - Jan 2019*

- PCA: application of PCA applied on images. It shows what happens if different Principal Components are chosen as basis for images representation and classification. Then a classifier will be chosen and applied 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 Learning: implementation of a Convolutional Neural Network on a big image data-set. The code implements a basic NN and CNN, the data loading, the training phase and the evaluation (testing) phase. The training and testing are on CIFAR 100 data-set.

Genetic Algorithm

Soon on GitHub

Personal Project — *PRESENT*

- Genetic Algorithm to find a solution to the Traveling Salesman Problem.

AIY Voice Assistant

GitHub

Hackahton Project — *Mar. 2019*

- An home assistant that use natural language processor and it is able to connect to the Google Assistant or Cloud Speech-to-Text service.

Extracurricular Activity

Machine Learning Student Group

Turin, Piedmont

Member — *Feb. 2019 - PRESENT*

- Passionate Machine Learning students of Politecnico di Torino in which ideas and advice are exchanged.
- Gained knowledge in Machine Learning and Deep Learning area.

Hello BOT! - Hackathon

Turin, Piedmont

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

- Winner of the Hackathon.
- A Python telegram BOT has been developed in 24h with a related presentations exposed to several companies.
- Code available on GitHub.

Reply Code Challenge - Hackathon

Turin, Piedmont

Reply - 'Code Masters Team of Reply' — *30-31 Mar 2019*

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

Like@Home - Hackathon

Turin, Piedmont

Mu Nu Chapter of IEEE - HNK PoliTO, sponsored by Reply — *15 Mar 2018*

- Winner of the Hackathon.
- The purpose is to develop in 24h an home assistant useful for students.
- Code available on GitHub.

Deep Learning

Turin, Piedmont

Udemy course — *Apr. 2018*

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

Ethical Hacking

Turin, Piedmont

Udemy course — *Mar. 2018*

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

Honors & Awards

Swim

2014	**Semifinalist**, Sette colli - International swimming championship	*Rome, Italy*
2014	**3th Place**, Italian swimming championship	*Rome, Italy*
2014	**1st Place**, Regional swimming championship	*Sicily, Italy*
2013	**4th Place**, Italian swimming championship	*Rome, Italy*
2013	**1st Place**, Regional swimming championship	*Sicily, Italy*
2012	**5th Place**, Italian swimming championship	*Rome, Italy*
2012	**1st Place**, Regional swimming championship	*Sicily, Italy*
2011	**1st Place**, Jeux des îles - International swimming championship (Cat. Juniores)	*Palermo, Italy*
2011	**1st Place**, Regional swimming championship	*Sicily, Italy*
2010	**1st Place**, Regional swimming championship	*Sicily, Italy*

Hackathon

2019	**1st Place**, Like@Home - Mu Nu Chapter of IEEE Hackathon (sponsored by Reply)	*Turin, Piedmont*
2018	**Participant**, Reply Code Challenge - Hackathon	*Turin, Piedmont*
2017	**1st Place**, Hello BOT - Mu Nu Chapter of IEEE Hackathon	*Turin, Piedmont*

Languages

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