



Federico Gianni

COMPUTER ENGINEER · SOFTWARE & DATA SCIENCE EXPERT

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"Inside every large program, there is a small program trying to get out."

Summary

I was born on September 12th 1995 in Treviso, a small town in northeastern Italy, but I was raised in the town of 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, 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

COMPUTER TECHNOLOGY AND MATHS

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

Turin, Piedmont

Jan 2016 - PRESENT

Competitive swimmer

GEMINI & CNT (CENTRO NUOTO TORINO)

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

Syracuse, Sicily & Turin, Piedmont

Sept 2009 - Apr 2015

Education

Liceo Superiore "Ettore Majorana"

HIGH SCHOOL DIPLOMA

- Scientific high school diploma, 93/100

Noto (SR), Sicily

2009 - 2014

Politecnico di Torino

BACHELOR OF ENGINEERING - BE

- Computer Engineering

Turin, Piedmont

2014 - 2017

Politecnico di Torino

MASTER'S DEGREE

- Computer Software Engineering

Turin, Piedmont

2017 - Exp. 2019

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, PyCharm, CLion, PHPStorm, IntelliJ IDEA, Eclipse, XAMP, Trello, Visual Studio, Android Studio

Projects

Machine Learning

ACADEMIC PROJECT

GitHub

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.

ETS - ESP32 Tracking system

GitHub

PROJECT FOR THE "PROGRAMMAZIONE DI SISTEMA" COURSE

Jul 2018 – Oct 2018

- Distributed system to gather, analyze and store data related to triangulation and analysis of mobile devices in buildings.
- 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 FOR 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.

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**, Mu Nu Chapter of IEEE Hackathon
2018 **Participant**, Reply Code Challenge
2017 **1st Place**, Mu Nu Chapter of IEEE Hackathon

Turin, Piedmont

Turin, Piedmont

Turin, Piedmont

Languages

Italian, Mother-tongue

English, B2, Level attested by IELTS Certificate - British Council

French, A2