

# FedericoGianno



DoB: 12/09/1995

## Contacts

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## Skills

**Domain knowledge:** Machine Learning • Meta-heuristic algorithms • Multithreaded programming • Unix

**Technical:** C • C++ • Python • Java • Matlab • Bash • AWK • PHP • SQL • JS

**Languages:** Italian, *Mother tongue* • English, *Professional working proficiency* (IELTS B2) • French, *Elementary proficiency*

## Extra Curricular Activities

Coding Competition • Member of Machine Learning Student Group at PoliTO • Competitive Swimmer

## Honors & Awards

**Swim:** Regional Champion for 5 consecutive years • Five Italian National finals • Participated twice in International Competition.  
**Hackathon:** First place in "Hello BOT!" by Mu Nu Chapter of IEEE: developed a Python telegram BOT • First place in "Like@Home" by Mu Nu Chapter of IEEE (sponsored by Reply): developed an home assistant for Cloud Speech-to-Text service.

## Profile

Detail-oriented Software Engineer adept at motivating self and others. Passionate about Optimization Methods, Cloud Computing, Machine Learning, Big Data and educate the next generation of technology users and innovators. Oriented toward challenges that require strong problem solving skills.

## Experience

- |             |  |                   |
|-------------|--|-------------------|
| 2016 - 2018 | <b>Private Tutor</b><br>Computer Technology and Maths<br>• Provided private lessons, concerning maths and computer technology, to high school students.  | Turin, Italy      |
| 2018 - 2019 | <b>Student Researcher</b><br>Politecnico di Torino - Associated with netgroup PoliTO<br>• Study and design data models for NFV and SDN architectures: proposed a new data format for the representation of all the most relevant information in the NFV and SDN contexts and implemented a RESTful web service that permits to store and retrieve the NFV/SDN information. | Turin, Italy      |
| 2019 - Now  | <b>Software Engineer - Amadeus</b><br>Alten<br>• Worked on functional monitoring solutions, covering platforms ranging from backend development (C++/Python) to Hadoop, data storage (MySQL/Elastic Search) and access (REST API).<br>• Developed tools for the Amadeus Cloud Service. Gained knowledge about distributed computing, OpenShift/Kubernetes and Kafka.       | Nice Area, France |

## Education

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|-------------|--|------------------|
| 2009 - 2014 | <b>Scientific High School P.N.I. - Math and Physics</b><br>High School Diploma, 93/100   | Noto (SR), Italy |
| 2014 - 2018 | <b>Politecnico di Torino</b><br>Bachelor's Degree - Computer Engineering                 | Turin, Italy     |
| 2018 - 2020 | <b>Politecnico di Torino</b><br>Master's Degree - Computer Software Engineering, 102/110 | Turin, Italy     |

## Notable Projects

- |      |   |   |
|------|---|---|
| 2017 | <b>Wordlist Generator</b><br>Tool that allow you to generate your customized wordlist for penetration testing practice (brute force attack, dictionary attack, etc.). Different methods (combinatorics and recursive approach) are available in order to make it.         | Personal Project  |
| 2018 | <b>ESP32 Tracking System</b><br>Distributed system to gather, analyze and store data related to triangulation and analysis of mobile devices in buildings. The system sniff and analyze probe request packets sent by smart-phones that are looking for Wi-Fi connection. | Academic Project - System and Device Programming                |
| 2019 | <b>Machine Learning</b><br>PCA applied on images and Naive Bayes Classifier to classify image. Validation, cross validation and grid search with multi class SVM. Convolutional Neural Network implementation from scratch in PyTorch on a big image dataset.             | Academic Project - Machine Learning and Artificial Intelligence |