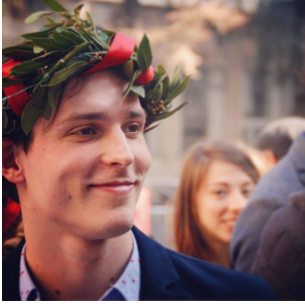# FedericoGianno

SOFTWARE ENGINEER
DoB: 12/09/1995
Located in Nice, France

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Languages

Italian - *Mother tongue*
English - *Professional working proficiency*
French - *Elementary proficiency*

Resume

Detail-oriented Software Engineer adept at motivating self and others. Passionate about Optimization Methods, Meta-heuristic Algorithms, 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

2008 - 2015   **Competitive swimmer**   Syracuse, Italy & Turin, Italy
Gemini & Centro Nuoto Torino
- Competed as a competitive swimmer for two different Italian teams and achieved important results at Regional, National and European level.

2016 - 2018   **Private Tutor**   Turin, Italy
Computer Technology and Maths
- Provided private lessons, concerning maths and computer technology, to high school students.

2018 - 2019   **Student Researcher**   Turin, Italy
Politecnico di Torino - Associated with netgroup PoliTO
- 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.

2019 - Now   **Software Engineer - Amadeus**   Nice Area, France
Alten
- Created KPIs, to monitor the different steps of the shopping and availability flows (100k TPS) of Amadeus customers.
- Developed tools for the Amadeus Cloud Service.

Education

2009 - 2014   **Scientific High School P.N.I. - Math and Physics**   Noto (SR), Italy
High School Diploma, 93/100

2014 - 2017   **Politecnico di Torino**   Turin, Italy
Bachelor's Degree - Computer Engineering

2017 - 2020   **Politecnico di Torino**   Turin, Italy
Master's Degree - Computer Software Engineering, 102/110

Notable Project

2017   **Wordlist Generator**   Personal Project
Tool that allow you to make your customized wordlist for penetration testing practice (brute force attack, dictionary attack, etc.). Different methods (with combinatorics and recursive approach) are available in order to make it.

2018   **ESP32 Tracking System**   Academic Project - System and Device Programming
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 a Wi-Fi connection.

2019   **Machine Learning**   Academic Project - Machine Learning and Artificial Intelligence
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.

Skills

- **Tools**
  Eclipse, JetBrains, Visual Studio, Android Studio, JUnit Testing, Git, XAMP

- **Industry Knowledge**
  Problem-solving, Cloud Computing, Formal Languages and Compilers, Metaheuristic Algorithm, Operating System, Machine Learning, Deep Learning, Cryptography, Technical writing, Software development, Database Management (SQL, NoSQL), Unix

- **Libraries & Frameworks**
  NumPy, PyTorch, Scikit-learn, Matplotlib, Pillow, Scrapy, Selenium

- **Languages**
  C, C++, Python, Java, Bash, x86, PHP, SQL, JavaScript, HTML, CSS

- **Soft Skills**
  Attention to detail, Teamwork & cooperation, Teaching, Time management

Extra Curricular Activities

- **Coding Competition**
  Active player of online coding games (HackerRank) and participated to different hackathons.

- **Udemy courses**
  Followed courses concerning Convolutional Neural Networks, Natural Language Processing and Network Security (Nmap Ethical Hacking).

- **Member of Machine Learning Student Group at PoliTO**
  Passionate Machine Learning students of Politecnico di Torino in which ideas and knowledge are exchanged. Gained knowledge in Machine Learning and Deep Learning area.

Honor & Awards

- **Swim**
  - Undefeated Regional Champion for 5 consecutive years.
  - Five Italian National finals (hit a 3rd place and two 4th ones).
  - Participated twice in International Competition (hit a semifinal and one 1st place in Cat. Junior).

- **Hackathon**
  - First place in "Hello B0T!" 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.