Pablo **Giaccaglia**

COMPUTER SCIENCE MSc. STUDENT

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Education

MSc. in Artificial Intelligence
POLYTECHNIC UNIVERSITY OF MILAN

Milan, Italy
Sept. 2021 - Current

- Implemented a Neo4j database to support contact tracing
- Implemented a MongoDB database to support managing and validation of EU Digital COVID - like certificates
- Implemented an ElasticSearch & Kibana database for vaccination campaign analysis
- Implemented an Online Learning framework for advertising using Multi-Armed Bandits
- Implemented High-Performance Top-K Personalized Pagerank on GPU using C++ and CUDA

BSc. in Engineering of Computing Systems
POLYTECHNIC UNIVERSITY OF MILAN

Milan, Italy
Sept. 2018 - Sept. 2021

- Final grade: 97/110
- Created a simple text editor with undo/redo support in C
- Implemented a board game in Java, performing extensive testing with JUnit
- Described in VHDL a circuit to perform simplified equalization algorithm to a scaled gray image
- Created a website School Register with Thymeleaf, JEE, MySQL and Javascript

Diploma di Liceo Scientifico
LICEO SCIENTIFICO GUIDO CASTELNUOVO

Firenze, Italy
Sept. 2013 - Jul. 2018

- Final grade: 85/110

Skills

Programming	Python, Java, C, VHDL, LaTeX
Libraries	Numpy, Seaborn, JUnit, PyQt, PyDicom, Selenium, Beautiful Soup
Front-end	Thymeleaf, HTML5, CSS
Back-end	Java EE
Databases	MySQL, MongoDB, Neo4j, Elasticsearch
Photo/Video editing	Lightroom, Photoshop, Vegas Pro
Operating Systems	MacOS, Windows 10/7
Driving licenses	A1, B

Personal Projects

DICOMViz
DICOM IMAGES VISUALIZER

- *DICOMViz*, a lightweight portable DICOM viewer. It allows to load and view Dicom series, single acquisitions and their tag data. The supported medical images can be exported in different formats, copied to clipboard, viewed as animations in case of series, rotated, zoomed in and out and examined with other utilities. Support for negative colors images, color maps, exposure, lungs masks and segmentation included
- Language: Python
- Libraries: PyDicom, NumPy, PyQt, PyQtGraph

Mp3 Telegram Bot
TELEGRAM BOT TO RETRIEVE MP3S

- Minimal Telegram bot to download Youtube videos as mp3, with support of lyrics and artist info retrieval, slowed & reverb effect and video generation through GIF
- Language: Python
- Libraries: python-telegram-bot, gipthy-client, lyricsgenius, wikipedia, googleapiclient

KairosFill & KairosBot
AUTOBOOKING LESSONS & LIBRARY SEATS

- *KairosFill* is a minimal GUI to automatically book university lesson's seats. *KairosBot* is a bot to batch book university's library seats, suitable for daily automatic execution.
- Language: Python
- Libraries: Selenium, Tkinter, Psycopg2

Personal Data