



# GIANLUCA DE CARLO

V year IT Engineering student, Sapienza Università di Roma

## PERSONAL DATA

Place and date of birth: Roma, 16/11/1998

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## EXAMS PASSED

### MASTER DEGREE

- Algorithm Design (30/30), Distributed Systems and Computer and Network Security (30L/30) Machine Learning (30/30), Network Infrastructures (30/30), Capacity Planning (22/30), Software Engineering (29/30), Advanced Operating Systems and Virtualization (29/30), Data Management (24/30), Data Mining (30L/30), Mobile Applications and Cloud Computing (30/30), Big Data Computing (28/30), Neural Networks (30/30), Advanced Information Systems and Security (30L/30).

### BACHELOR DEGREE

- Fondamenti di Informatica I, Geometria, Analisi Matematica I, Tecniche di Programmazione, Fisica, Calcolo delle Probabilità e Statistica, Teoria dei Sistemi, Analisi Matematica II, Progettazione Del Software, Fondamenti di Informatica II, Controlli Automatici, Sistemi di Calcolo, Sistemi di Calcolo II, Economia e Organizzazione Aziendale, Telecomunicazioni, Basi di Dati, Ricerca Operativa, Programmazione Funzionale e Parallela, Reti di Calcolatori, Metodi Quantitativi per l'Informatica, Laboratorio di Architetture Software e Sicurezza Informatica, Elettronica.

## EDUCATION

2022 -

### PHD IN DATA SCIENCE (EXPLAINABILITY IN GRAPH NEURAL NETWORKS),

SAPIENZA UNIVERSITÀ DI ROMA

2020 - 2022

### MASTER DEGREE IN COMPUTER SCIENCE ENGINEERING,

SAPIENZA UNIVERSITÀ DI ROMA

Course in english language

Score: 110/110 cum Laude

2017 - 2020

### BACHELOR DEGREE IN IT AND AUTOMATIONS ENGINEERING,

SAPIENZA UNIVERSITÀ DI ROMA

Score: 108/110

2012 - 2017

# DIPLOMA IN SCIENTIFIC HIGH SCHOOL, APPLIED SCIENCES

LICEO VITTORIA COLONNA ROMA

Score 100/100

## COMPUTER SKILLS

- Proficient in Python, C
- Good knowledge of Java, NodeJS, JavaScript
- Good knowledge of web development (PHP, HTML, CSS)
- Basic knowledge of Ruby
- Good knowledge of Big Data analysis and AI algorithms
- Basic knowledge of Linux kernel development
- Good knowledge of SQL and relational database design
- Good knowledge of Linux based OSs
- Excellent knowledge of MS Office packet

## LANGUAGE KNOWLEDGE

ITALIAN: mother tongue

ENGLISH: B2 certificate

FRENCH: I have been in France for two years

## MAIN UNIVERSITY PROJECTS

- During the bachelor degree I took part of the **Sapienza Gladiators Racing Team** ([link to the team's webpage](#)). A team of students with the goal to design and realize a racing bike for the [Motostudent International Competition](#). My main tasks were:
  - The development of the website ([website URL](#))
  - The design and realization of the bike electric system

To pass several exams, I developed the following projects:

- Front-end and back-end development with Ruby, of a website to integrate cloud services and CRUD (create, read, update, delete) operations. The project has been developed following the MVC (model-view-controller) and TDD paradigms (test driven development).
- A Linux kernel module, programmed in C, for the scheduling of processes defined by a user program.
- A Graph Neural Network (GNN) applied to a Protein-protein interaction (PPI) network to predict gene-disease associations.
- A crawler and a search engine of jobs offers from well-known website.

## HOBBY AND SPORT

Passionate of IT, Big Data, AI, Cyber Security, and motorsports.

I practice sport at amateur level (sci, boxing, gym).

## DATA TREATMENT

I authorize, for the purposes of an eventual selection activity, the treatment of the personal data contained in my curriculum vitae, according to the art. 13 of the D. Lgs. 196/2003 and to the art. 13 GDPR 679/16.

Roma, 30/12/2022

  
Gaetano De Caro