Adriano Emanuele Califano

Nationality: Italian **Date of birth:** 22 Jan 2002 **Place of birth:** Salerno, Italy **Gender:** Male

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WORK EXPERIENCE

Erasmus Traineeship+ - *Jheronimus Academy of Data Science* [1 Mar 2025 – 31 May 2025]
Address: Sint Janssingel 92, 5211 DA 's-Hertogenbosch (Netherlands)
Erasmus project carried out as an extracurricular activity for the completion of the master's thesis project.

EDUCATION AND TRAINING

Master's Degree in Computer Science - *Università degli Studi di Salerno* [26 Oct 2023 – Ongoing]
Address: Via Giovanni Paolo II 132, 84084 Fisciano (Italy) | **Website:** unisa.it | **Field of study:** Computer Science - Cloud Computing
Level in EQF: EQF level 7 | **Type of credits:** CFU | **Number of credits:** 120
Thesis Topic: Designing a serverless architecture for dark web crawling.
Thesis Supervisor: Professor Fabio Palomba
Currently earned credits: 69/120   **Weighted Average of exams:** 29.118

Bachelor's Degree in Computer Science - *Università degli Studi di Salerno* [1 Sep 2020 – 26 Oct 2023]
Address: Via Giovanni Paolo II 132, 84084 Fisciano (Italy) | **Website:** unisa.it | **Field of study:** Computer Science
Final grade: 110/110 Cum Laude | **Level in EQF:** EQF level 6 | **Type of credits:** CFU | **Number of credits:** 180
Thesis: Application of NLP and QNLP techniques for classification of security requirements.

Scientific High School Diploma, specialization in Applied Sciences (Liceo Scientifico – Scienze Applicate, Italy)
Liceo Scientifico Statale Andrea Genoino [Sep 2015 – Jun 2020]
Address: Via Ernesto di Marino 12, 84013 Cava de' Tirreni (Italy) | **Website:** www.liceogenoino.edu.it
Final grade: 100/100 Cum Laude | **Level in EQF:** EQF level 4

LANGUAGE SKILLS

Mother tongue(s): Italian
Other language(s): English | English Language Certificate FCE with overall score of 168 (B2 level)
Listening B2 - **Reading** B2 - **Writing** B2
Spoken Production B2 - **Spoken Interaction** B2

DRIVING LICENCE

Driving Licence: B

SKILLS

Communication Skills
- Listening and comprehension skills developed during studies thanks to participation in various group projects.

Managerial Skills
- Reliability in project deadlines and ability to work in a team acquired during project activities and thesis drafting.
- Aptitude for organization and proactive work planning acquired during the studies and in the everyday life to make all the activities I carry out during the day coexist .
- Aptitude for leadership, combined with a strong willingness to listen to suggestions and advices acquired in private and university projects.

Job-Related Skills
- High motivation and a proactive attitude, especially when engaging with new things that spark my interest and curiosity.
- Fast adaptability and learning ability, combined with high precision and meticulous planning in work execution.

Digital Skills
- Experience in object-oriented programming, particularly in Java (intermediate level) for both centralized and distributed, software development, and Python (intermediate level) acquired with several exams and self-taught study.
- Basic knowledge of Android application development, self-taught.
- Proficient in front-end technologies: Bootstrap (intermediate), HTML5 (intermediate), CSS (intermediate), JavaScript (basic), Ajax (basic).
- Familiar with back-end frameworks: Django and Flask (intermediate).
- Basic knowledge of SQL and NoSQL for database design.

- Intermediate skills in C for application development and data structures.
- Experience in designing and implementing cloud architectures (intermediate) acquired during master studies.
- Experience in data analysis with basic, intermediate and advanced models acquired during several IA university courses and private projects.
- Basic knowledge of data compression.

Other Skills & Hobbies

- Manual skills in assembling computers, musical skills in playing guitar (for about ten years) and piano (for a couple of years).
- Athletic abilities developed through ongoing volleyball practices and professional volleyball leagues.
- Cooking skills acquired during the period of living abroad.
- Building skills acquired with LEGO sets.
- Japanese mangas and anime enjoyer.
- Passionate gamer and lover of videogames completism.

PROJECTS

Classical-Quantum NLP [Mar 2023 – Sep 2023]
Development of classical and quantum binary classification models for non-functional requirements with Lambeq python library.
Link: https://github.com/adriano22jr/Tesi-Quantum-NLP.git

Graph pagerank analysis [Dec 2023 – Jan 2024]
Design and development of a tool for building knowledge graphs based on citations between papers, with PageRank analysis.
Link: https://github.com/adriano22jr/graph-pagerank-analysis

Notepad-AI [Feb 2024 – Mar 2024]
Design and development of an online note-taking cloud platform, entirely based on Microsoft Azure infrastructure.
Link: https://github.com/adriano22jr/Notepad-AI

DSD+ [Mar 2024 – Jun 2024]
An open-source tool that detects data issues using rule-based techniques, enhancing reporting, integrating quality metrics, and tracking dataset changes over time.
Link: https://github.com/CpDant/DSD-plus

MedGraph [Jun 2024 – Jul 2024]
Project aimed at applying knowledge graphs in the domain of biomedical papers leveraging Named Entity Recognition (NER) technologies to identify and classify entities mentioned in the abstracts of biomedical papers.
Link: https://github.com/adriano22jr/MedGraph

Light-Field Compression [Nov 2024 – Feb 2025]
Comparative analysis between traditional data compression techniques with Principal Component Analysis, Singular Value Decomposition and CNNs applied in the context of LightField Images.
Link: https://github.com/adriano22jr/light-field-compression

Serverless Crawling on Dark Web [Mar 2025 – Current]
Design, development and deployment of a serverless crawler on Microsoft Azure cloud platform, designed to extract and process data from dark web pages.
Link: https://github.com/adriano22jr/crator-web

Pagani, 30 June 2025