europass

Lorenzo Di Filippo

WORK EXPERIENCE

10/2019 – 10/2021 Rome, Italy

Borsista Università degli studi di Roma "La Sapienza"

EDUCATION AND TRAINING

09/2018 – 10/2021 Rome, Italy

bachelor degree Università degli studi di Roma "La Sapienza"

Website https://www.uniroma1.it/it/pagina-strutturale/home

Field of study Engineering in Computer Science **Final grade** 110/110 cum laude **Thesis** pick and delivery come applicazioni della robot navigation

10/2019 – 10/2021 Rome, Italy

Percorso di Eccellenza Università degli studi di Roma "La Sapienza"

Website https://www.uniroma1.it/it/pagina-strutturale/home

Field of study Engineering in Computer Science

10/2021 – CURRENT Rome, Italy

Master Degree Università degli studi di Roma "La Sapienza"

Website https://www.uniroma1.it/it/pagina-strutturale/home

Field of study Computer Science **Final grade** Weighted average 28.62/30 **Thesis** Exploring the Performance and Security Landscape of Avalanche Blockchains

Link https://drive.google.com/file/d/1w-oN22r92VT2oVRHjJ13oFPJwYlTyoaO/view?usp=sharing

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening B2
Spoken production B2
Reading C1
Spoken interaction B2
Writing B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Powerpoint | Google Drive | C, C++c C# | HTML, JS, CSS | Python | Java | SQL, MySQL, SQLite

ADDITIONAL INFORMATION

Projects

- **Relation Extraction for Deep Learning** Relation extraction is a natural language processing (NLP) task that involves identifying and categorizing relationships between entities mentioned in a text. Entities are typically nouns or noun phrases that refer to specific individuals, organizations, locations, or other entities. The goal of relation extraction is to automatically extract meaningful connections or associations between these entities, revealing the underlying structure of information within the text.

  For this project, we utilized the WebNLG dataset (https://paperswithcode.com/dataset/webnlg). The achieved F1 score was 93.5 for the "Relation Extraction" task and 97.9 for the "Named Entity Recognition" task.

  Link https://drive.google.com/drive/folders/1kLaRyg3aaSWq9FJClwnoTpsSsNBGHCIQ?usp=drive_link

- **Restaurant Order Manager** This is an application for creating and managing restaurant-related websites. It consists of a client-side and a server-side. The client-side is used by customers to search for restaurants, view menus, and place orders using the token associated with their table. The server-side is used by restaurant staff for management purposes. It enables them to manage tables and reservations, modify the menu, handle customer orders, and analyze the restaurant's performance through graphs and reports.

  Link https://github.com/FetRobot/restaurantOrderManager

- **Fitness diary App** Android app for tracking physical activity and macronutrient intake through a daily personal diary.

  Link https://github.com/gianluca-cacciarini/Fitness-diary-APP

- **Avalanche Blockchain Pseudo Algorithm Replication** This is the project related to the master's thesis whose study aimed to assess the scalability of the Snowball algorithm by testing it while varying the number of nodes and the percentage of faulty nodes within the network. We used Simpy and python for the development and testing of the algorithm. SimPy is a process-based discrete-event simulation framework based on standard Python. It functions as an asynchronous event dispatcher that allows the generation and scheduling of events at specified simulation times.

  Link https://github.com/lorenzo-12/tesi

- **Big Data Computing Project** Big Data Computing course project regarding the study and practice of various techniques used for the analysis of large datasets, such as k-means clustering, SVD/PCA and LSH.

  Link https://drive.google.com/drive/folders/11hknfiEMtPbXZkMOjFH760mwFTwnWINb?usp=sharing