

# Tommaso Manzana

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## Education

- **Bachelor in Computer Science** **UniTn**, Trento  
Sep 2019 – Jul 2023
  - **Diploma in Scientific High School** **Liceo Rosmini**, Rovereto  
Sep 2013 – Jun 2018  
pathway: applied Sciences with **Computer Science**
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## Experience

- **Software Engineer (Full-Stack & AI)** **LEG s.r.l.**, Brescia  
Oct 2022 – Present
    - Designed and developed **SpiritOrange**, an **Ionic** app that recommends tailored cocktails based on user preferences, including ongoing implementation of **NLP** analysis on the cocktails' ingredients, flavour profile, and serving style.
    - Developed **Algorec** a credit platform that computes the profitability ranking of a property based on location, size, credit status and amenities. The platform uses **predictive modeling** to analyze real estate market trends and predict future profitability.
  - **Full-Stack Developer** **GreenVulcano**, Rome  
Dec 2021 – Aug 2022
    - Developed **Effatta**, App in **React Native** that uses **Robotic Process Automation** to manage electronic receipt via **The Revenue Agency's** API
    - Developed **Cantico**, App in **React Native** to book theaters & live-events
  - **Project Engineer** **OneSporter**, Tarvisio  
Jun 2021 – Mar 2022
    - Won **Winter Sports Hackathon 2021** as part of a 4-member team hosted by **UniTn**.
    - Developed a game app in **Ionic** to play during live ski events.
    - Partnered with **FIS** to launch the game, premiered in **Cortina 2022 & Courchevel 2022**
  - **Project Engineer** **Saidea**, Trento  
Jan 2021 – Apr 2021
    - Implemented a **Python** program to manage 'Ticket' insertion on the company database (Antares).
    - Coded a **PHP** script to extract solar panel data from Excel and load relationships into a database.
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## Projects

- **FST** **Falconeri Ski Team**  
Nov 2019 – Present
  - As freelancers a college partner and I developed an **App** as well as a **Web App** for the purpose of managing a ski team, this was achieved through the **Ionic** framework.
  - The front-end was implemented in **Angular** while the back-end was powered by Google's **Firebase**.
- **Covid-19 Financial losses** **ManzanaIori**  
Feb 2020 – May 2020
  - Developed a WebApp to compute COVID-19 related financial losses, provided to the clients of an accountant studio. Data was taken from the accountant database and processed using **time series forecasting**, notably using **ARIMA**.
  - The data would then be shown via interactive charts.

- **Galaxies Classification CNN**

UniTn

*Feb 2021 – Jun 2021*

- In the "Introduction to Machine Learning" university course I had to project an algorithm to classify images of galaxies. After using different approaches I settled with a **Convolutional NN** and **placed Top 20** among others in the final leaderboard.
- Most notably I fine-tuned a **Res-net 50** neural network in order to achieve the best accuracy.

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## Languages

**Italian** (Native), **English** (C1), **Chinese** (B1), **German** (School-level)

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## Technical Skills

**Strong:** Python, PyTorch, TensorFlow, Angular, React, JavaScript, Node

**Experienced:** PHP, NLTK, Spark, AWS, Git, SQL, C++, Flask

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## Personal & Extracurricular

At 24, I cultivate a wide range of interests that keep me engaged both mentally and physically.

- I am particularly keen on **sports**, I was a gymnast for the most part of my life and have participated in the Under-14 national competition. I am now practicing both climbing and biking.
- I am enthusiastic about **language learning** and I am currently striving to improve my proficiency in Chinese.
- As a teenager, I had the invaluable opportunity to **travel extensively**. Having visited more than 20 countries helped me to appreciate all the distinct facets of different cultures. Especially during middle school, I travelled to the UK on several occasions to learn the English language.
- Whilst not travelling I always endeavoured in **social activities** and contributed to my community, for more than 5 years I volunteered at local summer camps to entertain elementary school kids.
- Professionally speaking, I aspire to become a Machine Learning engineer.