

Nicola Lorenzon

Zürich, Switzerland

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Education

ETH Zürich - Eidgenössische Technische Hochschule Zürich

Zürich, Switzerland

SEMP EXCHANGE STUDENT

Sep 2024 - Feb 2025

- *Master Thesis:* Natural Language Processing @ Rycolab with Professor Ryan Cotterell.

UniPD - University of Padua

Padua, Italy

MSC IN COMPUTER ENGINEERING (ARTIFICIAL INTELLIGENCE & ROBOTICS)

2022 - present

- *GPA:* 29.7/30
- *Relevant Coursework:* Automata Formal Languages and Compilers, Operations Research, Computer Vision, Artificial Intelligence, Ethical Considerations in Artificial Intelligence, Big Data Computing, Industrial Robotics, Machine Learning, Intelligent Robotics, Distributed Systems, Natural Language Processing, Deep Learning.

UniPD - University of Padua

Padua, Italy

BSc IN COMPUTER ENGINEERING

2018 - 2021

- *GPA:* 108/110
- *Relevant Coursework:* Artificial Intelligence, Databases, Data structures and algorithms, Operative Systems, Control Theory, Electronics, Probability
- *Thesis:* Loss Function for Image Segmentation [\[link\]](#)

Work Experience

Noovle S.p.A.

Milan, Italy

CLOUD DATA ENGINEER - BUSINESS INTELLIGENCE ENGINEER

Dec. 2021 - Oct. 2022

- Led a team of five engineers to implement from scratch an ETL pipeline for a major Italian bank on Google Cloud Platform (GCP).
- Developed multiple Cloud Composer DAGs to orchestrate data flows and integrated a Python-based alert system for data quality monitoring.
- Deployed Looker dashboards used daily for cost analysis and forecasting, enhancing decision-making efficiency for the client.

Social Thingum

Milan, Italy

SOFTWARE ENGINEER INTERN

Sep. 2021 - Dec. 2021

- Configured a MySQL database and deployed a complete e-commerce website using XAMPP.
- Developed a binary classification model for food data using Python, improving data processing efficiency by 12%.

I.P.S.I.A. DELLA VALENTINA - PNRI00602X

Sacile, Italy

FULL TIME TEACHER

Feb. 2021 - Jul. 2021

- Taught Electrical and Electronic Science and Technologies to 25 high school students, developing lesson plans and hands-on labs to facilitate practical learning.

Projects

FoodSight (€11.644 GRANT)

PYTHON, OPENCV

- Won a €11.644 grant [\[link\]](#) from the University of Padova for innovative project.
Currently developing a Computer Vision system to monitor and predict food consumption and food waste in canteens.
The project aims to promote sustainability, quality and customer satisfaction.

RAG: UniPD Academic Assistant

PYTHON, HUGGINGFACE

- Built a Retrieval-Augmented Generation (RAG) system for answering students' questions about the Computer Engineering curriculum at UniPD.
Developed dataset by scraping the university website and implemented model selection for optimal performance. [\[link\]](#).

ROS: Thiago Pick and Place

C++, ROS, OPENCV

- Created a robot operating system (ROS) pipeline for pick-and-place tasks, writing algorithms for object recognition and robotic arm coordination. [\[link\]](#).

Food Leftover Estimation

C++, OPENCV

- Developed a computer vision pipeline for food segmentation and quantity estimation from tray images, enabling more efficient analysis of food waste. [\[link\]](#).