

CARLO ROSSO



🇮🇹 Italian 🏠 01/11/2002 📍 Copenhagen, DK

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Software Skills

Machine Learning:

Torch, Scikit-learn, NLP, AlphaFold, NumPy, HuggingFace, Pandas, Polars, Weights & Biases, NLTK

Languages:

Python, Rust, Bash, Haskell, C/C++, Java, TypeScript, JavaScript, Golang, SQL, Lua, Matlab, PHP, HTML, CSS, LaTeX, Typst

Programming:

Functional Programming, Algorithms, Git, UV, NeoVim, tmux, DataSpell, undotree, Jupyter, Alacritty, Drizzle, Angular, Docker, Node.js, Nest.js, Django, Tailwind

Languages Italian:

Native

English: IELTS 7.5

Interests

Sports: Judo, Sailing, Skiing

Hobbies: Open Source, Reading, 3D Modeling, Journaling, Technology

About me

Hi! I'm Carlo, a versatile technologist with expertise in AI/ML, full-stack development, and high-performance computing. I deliver robust, effective and efficient solutions across domains—from NLP to structural biology.

Professional Experience



Machine Learning Intern [link](#)

UNIVERSITY OF PADUA

Padua (PD), Italy

07/2024 - 08/2024

- Performed **sentiment analysis** to examine whether syntax conveys meaning.
- Achieved **55.2%** accuracy using tree-kernel methods with syntactic data.
- Improved accuracy to **57.3%** with **LLMs** (RoBERTa) w/o syntactic information.

Education



Master of Science in Computer Science

UNIVERSITY OF COPENHAGEN

Copenhagen, Denmark

09/2024 - ongoing



Bachelor of Science in Computer Science

UNIVERSITY OF PADUA

Padua, Italy

09/2021 - 09/2024

- Artificial Intelligence, Software Engineering, Operating Systems.
- Final Grade: **106/110**.



Exchange Student

RØDKILDE GYMNASIUM

Vejle, Denmark

08/2019 - 05/2020

Projects

Weav [link](#)

- Social media to discover and advertise events, pubs, and coffees.
- Engineered a scalable python backend with **Django** in **Docker**.

Easy Meal [link](#)

- Web application to streamline restaurants' reservations and orders.
- Implemented in **Node.js** with **Nest.js** and **Drizzle** and separately in **Angular**.
- Full-stack application with **>90% coverage** of unit test and integration test.
- Processes' documentation: primary, supplementary and organizational.
- Evaluation: **25/30** in Software Engineering.

Music vs Robot [link](#)

- Developed tower-defense-style game inspired by *Plants vs Zombies*.
- Implemented in **C++14** with **Qt framework**, automated with **Makefile**.
- Evaluation: **3/3 with honors** in Object-Oriented Programming.

LogBook [link](#)

- Parsing Markdown into HTML in **Rust** and publishing with **GitHub Actions**.
- **Open source** project for personal notes, project management, and journaling.
- Keeping a daily LogBook, improves effectiveness and efficiency.

Extra Professional Experiences



Front Office Assistant

UNIVERSITY OF PADUA

Padua, Italy

08/2023 - 11/2023

- Data processing support, front office tasks, and archiving.
- 200h collaboration with Students' Career Office.
- Selected by merit for a part-time student collaboration.



Mechanical Worker

TPA SRL

Padua, Italy

06/2019 - 07/2019

- Fabricated and assembled automated machines, by cutting, shaping and preparing metal parts according to project specifications.

Extra Activities



Volunteer Handyman

ØHK HEDENSTED

Hedensted, Denmark

29/09/2019 and 29/09/2025

- Cleaning the facility: picking up cups, washing the floor and the tables.
- Sorting out tables and benches, and assisting the people at the festival.



Volunteer Youth Worker

A. S. SKORPION CLUB PORDENONE

Pordenone, Italy

15/06/2020 - 14/08/2020

- Cleaning the facility: washing the floor and the tables.
- Sorting out tables and benches, and assisting the people at the camp.
- Organizing activities: capture the flag, volleyball, and making bracelets.
- Looking after kids: serving food, playing with them, and tutoring them.



Volunteer Youth Worker

A. S. SKORPION CLUB PORDENONE

Pordenone, Italy

11/06/2018 - 31/08/2018



Volunteer Youth Worker

A. S. SKORPION CLUB PORDENONE

Pordenone, Italy

12/06/2017 - 31/08/2017

Sport



Judoka

A. S. SKORPION CLUB PORDENONE

Pordenone, Italy

2006 - 2021

- Qualified to national competition FIJLKAM.
- Competitions many weekends all around Italy, from Trentino to Sicily.
- Stage in Winter and Easter, with over 300 people of the same age every year.
- 3 times a week technical training and 2 times a week strength training.



Summer Sailing Course Winner

SCUOLA NAVALE MILITARE "F. MOROSINI"

Venice, Italy

10/07/2018 - 20/07/2018

- Winner for the course, on 15 available places for Italian boys.
- 20h theoretical classes for sailing.
- 36h practical classes on the sea in front of Venice.

Hobbies

Open Source for Europe [link](#)

- Building a platform for companies to sponsor single issues together.

Sailing

- In summer time, I like sailing with my family or friends around Italy, in Croatia or Slovenia.