

# 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 Building Energy Efficiency.

## Professional Experience



### ML/Software Developer [link](#)

4B CONSULTING

Copenhagen, Denmark

Aug 2025 - ongoing

- Extracted structured data from Danish text via **token classification**.
- Mapped Danish building data into a searchable **knowledge graph**.
- Enabled **Agentic RAG** by connecting clients to graphs via MCP.



### Machine Learning Intern [link](#)

UNIVERSITY OF PADUA

Padua (PD), Italy

Jun 2024 - Aug 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

Sep 2024 - ongoing

- Focusing in Machine Learning, and Integrative Structural Biology



### Bachelor of Science in Computer Science

UNIVERSITY OF PADUA

Padua, Italy

Oct 2021 - Sep 2024

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



### Exchange Student

RØDKILDE GYMNASIUM

Vejle, Denmark

Aug 2019 - May 2020

## Projects

### Easy Meal [link](#)

- Web application to streamline restaurants' reservations and orders.
- Full-stack application with **>90% coverage** of unit test and integration test.
- Processes' documentation: primary, supplementary and organizational.

### 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.

### Scripta [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.

## Other Professional Experiences

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### Front Office Assistant

UNIVERSITY OF PADUA

Padua, Italy

Aug 2023 - Nov 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

Jun 2019 - Jul 2019

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

## Extra Activities

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### Volunteer Handyman

ØHK HEDENSTED

Hedensted, Denmark

Sep 2019 and Sep 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 at Summer Camp

A. S. SKORPION CLUB PORDENONE

Pordenone, Italy

Jun 2020 - Aug 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.
- Also in 2018 and 2017.

## Sport

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### Judoka

A. S. SKORPION CLUB PORDENONE

Pordenone, Italy

Sep 2006 - Aug 2021

- Qualified to FIJLKAM national competition.
- 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

Jul 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

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### Cycling

- I like to commute by bike every day for the environment, to exercise and to look at the city.

### Journaling

- I enjoy writing down my daily life, my thoughts and my ideas.
- I want to keep trace of the path I am building, to reflect upon in the future.
- It helps me pointing out my goals, who I am, and where I want to go.

### Open Source for Europe [link](#)

- Building an platform for European Companies to sponsor single issues together.