

# 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

## Spoken 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](#)

Padua (PD), Italy

UNIVERSITY OF PADUA

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

Copenhagen, Denmark

UNIVERSITY OF COPENHAGEN

09/2024 - ongoing

- Focusing in Machine Learning, and Integrative Structural Biology

### Bachelor of Science in Computer Science

Padua, Italy

UNIVERSITY OF PADUA

09/2021 - 09/2024

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

### Exchange Student

Vejle, Denmark

RØDKILDE GYMNASIUM

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.
- Documentation of the processes: 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.