

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.