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
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

- Focusing in Machine Learning, and Integrative Structural Biology

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.