Carlo Rosso

COMPUTER SCIENCE STUDENT

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About me

I started my Master's degree in Computer Science in September. I am passionate about **Machine Learning** and **Computer Science**, indeed I completed a very interesting internship on **NLP** and sentiment analysis and I have loved it! Mainly because I was able to study and understand how some super cool algorithms work. I consider myself **incredibly curious** and **motivated**. I am also a socialist, therefore I am very interested in the **Open Source** world and I think Europe should invest more in it. **I am looking for a two-year position**, as I am still exploring whether I would like to continue working in the industry or pursue a PhD after completing my Master's.

Professional Experience

Machine Learning Intern
Padua (PD), Italy

UNIVERSITY OF PADUA
07/2024 - 08/2024

- Worked on **NLP** with **Scikit-learn**, **Numpy**, **Stanford Parser**, and **HuggingFace**.
- Studied the literature on **sentiment analysis** with **SST-5** dataset.
- **Implemented and compared** machine learning algorithms (Kernel Methods, RNN, LLMs)

Front Office Assistant
Padua (PD), Italy

UNIVERSITY OF PADUA
08/2023 - 11/2023

- Responsabilities included **data processing support**, **front office tasks**, and **archiving**.
- 200h collaboration with **Studenti Career Office**.
- Selected by merit for a **part-time studenti collaboration**.

Mechanical Worker
Motta di Livenza, Italy

TPA SRL
06/2019 - 07/2019

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

Education

Master of Science in Computer Science
Copenhagen, Denmark

UNIVERSITY OF COPENHAGEN
09/2024 - ongoing

- I am focusing on **Machine Learning**, and I also like **Advanced Programming**.
- **GPA**: Not available yet.

Bachelor of Science in Computer Science
Padua, Italy

UNIVERSITY OF PADUA
09/2021 - 09/2024

- **Thesis**: "Comparison of Kernel Methods and Large Language Models in Sentiment Analysis."
- **Final Grade**: 106/110.
- **GPA**: 3.5

Exchange Student
Vejle, Denmark

RØDKILDE GYMNASIUM
08/2019 - 05/2020

- One year in Denmark as an exchange student.
- Focused on **Mathematics**, **Physics**, and **Chemistry**.
- The year of the COVID-19 pandemic.

Projects

Somebody's Blog!
Anywhere in the world

PERSONAL PROJECT
2023 - ongoing

- **Personal blog** where I write my daily thoughts and experiences and todos.

- **Technologies**: Markdown, Rust, GitHub Pages.
- Built the infrastructure which converts the markdown files into static HTML and deploys them to GitHub Pages seemlessly and automatically.

Easy Meal   Padua, Italy

SOFTWARE ENGINEER, UNIVERSITY OF PADUA   2023 - 2024

- **Web application** designed to streamline restaurant reservations and order management for both customers and restaurateurs.
- Collaborated in a team of developers (6 students), following the **Model-View-Controller (MVC)** architectural pattern.
- Implemented **backend** using **Node.js** and **Nest.js**, managing restaurant data, orders, and user authentication.
- Implemented **frontend** using **Angular**, ensuring a responsive and user-friendly interface, with the same backend's design pattern: the **dependency-injection**.
- Employed **PostgreSQL** as the database and utilized **Drizzle ORM** for efficient interaction with the database and for experimenting with the new technology.
- Deployed the application using **Docker**, creating a containerized environment for easy development and deployment.
- **Evaluation**: 25/30.

Music vs Robot   Padua, Italy

OBJECT-ORIENTED PROGRAMMING, UNIVERSITY OF PADUA   2023

- Designed and developed a **tower-defense-style game** inspired by *Plants vs Zombies* using **C++14** and the **Qt framework**.
- **Clear separation of concerns** with distinct layers for the game's logic (model) and graphical interface (view) to enhance maintainability and scalability.
- Applied key **object-oriented principles** such as encapsulation, polymorphism, and modularity to create an elaborate class hierarchy.
- **Evaluation**: 3/3 with honors.

Skills

Machine Learning	**NLP**, TensorFlow, PyTorch, Scikit-learn, Pandas, Numpy, HuggingFace
Programming	**Functional Programming**, **Algorithms**, **Git**, Object-Oriented Programming, Data Structures, Database, Web Development
Programming Languages	**Python**, **Haskell**, **Rust**, C++, C, TypeScript, JavaScript, PHP, Golang, SQL, Html, **Typst**, LaTex, Lua, Java, Matlab

Spoken Languages

Italian	Native
English	Fluent, **IELTS 7.5**, Strong in listening and reading, Working on writing
Danish	Learning, Basic
Latin	Only reading, Love the poetry

Interests

Sports	Judo, **Sailing**, Skiing, Climbing
Hobbies	**Open Source**, Curiosity, Reading, 3D Modeling, Music, Cooking, Small-talk