

Mario Merlo

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Education

Laurea magistrale (Master's degree) in Computer Science and Engineering

Politecnico di Milano
September 2023 - Ongoing

Laurea triennale (Bachelor's degree) in Ingegneria Informatica

Politecnico di Milano
September 2020 - September 2023
Obtained with grade 98/110

Diploma di maturità scientifica

Istituto d'Istruzione Superiore G. Parodi
September 2015 - September 2020
Obtained with grade 100/100

Projects

My Shelfie

A complex Java table-top game built with a team of four people. It included online multiplayer with a client-server paradigm, supported by two technologies: sockets and Java RMI. The software system is based on the MVC design pattern, while many parts follow an Observer pattern for data communication among server-side components.

Pier-zon

A Java EE-based web application for an imaginary e-commerce platform. The server backend was created with Java Enterprise Edition, Java Beans and Thymeleaf, while the frontend web page was created through plain HTML 5 and CSS 3. The web app relied on a MySQL database to store data and the user session to store temporary information about the client.

PoliResourceBot.js

A Discord bot built upon the JavaScript discord.js library that lets users search among studying resources. The bot is built with Node.js and it relies on a MySQL database to handle both querying and insertion of data. The bot is open-source and its source code can be viewed [here](#).

PortableGPT.js

A Discord bot that relies on the OpenAI ChatGPT API to send requests to GPT-3 and receive its responses. The code to this project is open-source and available [here](#).

aziendaagricolasuccigiacom.com - Business website

A responsive website built with HTML, CSS and a little JavaScript to power a dynamic slideshow. The website adapts its layout to both desktop and mobile.

More projects

I have worked on many other projects spanning various technologies. Some of these include:

- A [C version of Wordle](#), created as one of the final projects for my Bachelor's degree
- A [C simulation](#) of a [Turing Machine](#), to correct one of my exercises in university
- Discord bots created with the discord.py library in Python
- A hardware memory manager in VHDL
- A [Python script](#) that uses pandas to convert Euro to Italian Lira and viceversa using official ISTAT data
- A [Python script](#) to visualise the [Collatz Conjecture](#)

Activities

Google Developer Students Club @ PoliMi - Community Lead

2021-2022

I was selected among other students to be the Community Lead for the amazing Google Developer Student Club community at Politecnico di Milano. My team and I hosted many events, especially in the Machine Learning field, with experts in the matter, to share some practical knowledge about these new technologies.

Google Developer Students Club @ PoliMi - Social Media Manager

2020-2021

I was selected by the team that was managing the GDSC before me to be their new social media manager. Together, we managed to spread the word about our club and make it one of the biggest in Europe, reaching 1200+ members. We hosted events about Machine Learning, Blockchain and Autonomous Driving.

Certifications

Cambridge English Language Assessment - Certificate of Advanced English (C1)

June 2019

Passed with grade 199/210

Japan Foundation - Japanese Language Proficiency Test (N5)

January 2019

Passed with grade 95/180