Federico Mainetti Gambera

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23 September 1997

EDUCATION

2011 – 2016
Classical highschool Diploma
Arnaldo State Classical School, Brescia

2016 – 2020
Bachelors's degree in Computer Science Engineering
Politecnico di Milano

PROJECTS

CLUP - Customer Line up

Developed a **full-stack application**, in a **team of two** and over the course of **6 months**, to avoid crowding up either inside and outside of shops during the pandemic.
Particular effort has been put in the **software development process** by writing design and analysis documents.
Main topics: JavaEE, API, SQL database, Javascript, ReactJS, teamwork.

Adrenaline

Digitalization of a board game with a complex card system in **Java**. The application lets you host a server and play online with friends, as well as against bots.
This project has been developed in **6 months** in a **team of three** students and was awarded for being the **best of all those in its university course**.
Main topics: Java, SQL database, multiplayer game, MVC pattern, teamwork.

Quotation management system

A **web application**, developed over the course of **6 months**, that allows the management of quotes for customized products. The project presents a **pure-HTML** version and a **single-page-application** version.
Main topics: web development, Java, Tomcat, AJAX, SQL database, sessions and authentication, Javascript, HTML and CSS.

Sunny Supervisor

A **Nodejs** application that runs on a **Raspberry Pi** and monitors the correct functioning of solar panels and sends reports in case of malfunctions.
Main topics: Raspberry Pi, Javascript, Python, nodeJS, API, OAuth 2.0.

Non deterministic Turing machine simulator

Standard C language implementation (with libc only) of an interpreter of non-deterministic Turing machines, in the single-ribbon variant and acceptors only.

Entities tracker

Implementation in **Standard C language** (with libc only) of a mechanism for monitoring relations between large quantities of entities that change over time.
The application is heavily **optimized in terms of speed and memory usage**.
Particular focus has been put on the use of complex **data structures and algorithms**.

🐙 Check all the projects on **github.com/FedericoMainettiGambera**.

SKILLS & INFORMATIONS

Programming languages

JAVA, Javascript, HTML, CSS, C, SQL, git, bash, LATEX.

Languages

Italian – native language.
English – excellent reading and comprehension, good talking and writing.
Spanish – excellent reading, writing, comprehension and talking.

Driving licence

type B.