Mario Di Modica

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About Me

I am a Computer Science student at the University of Pisa, in the process of obtaining a bachelor's degree and then continuing with a master's degree in Cybersecurity. I'm currently improving my skills in popular programming languages by working on some university and non-university projects. First of all I like programming, but I'm especially interested in the side of cybersecurity and how to secure computer systems. I have also a great interest in the development of applications (web and not) but I am still very open to new experiences to discover new fields of information technology.

Technical Skills

Languages	:	JavaScript, TypeScript, Python, Java, HTML, CSS, C#, C, SQL
Frameworks	:	React.js, Angular, Node.js, ASP.NET Core, Bootstrap
Libraries	:	moment.js, chart.js, mathplotlib, pandas, numpy, scipy, selenium, networkX, beautifulSoup
Databases	:	Firebase Firestore, Firebase Storage, Microsoft SQL Server
Dev Tools	:	Visual Studio Code, Visual Studio, Git, AWS, Docker
General	:	Full Stack Development, Web Scraping, Data Mining, Data Analysis

Education

University of Pisa — Pisa, Italy
Bachelor's degree in Computer Science — *Sep 2020 – Oct 2023*
???/110L

Liceo Scientifico L. Einaudi — Siracusa, Italy
Diploma — *Sep 2015 – Jun 2019*
90/100

Projects

MyLibretto — *React.js, HTML, CSS, Firebase, JavaScript, Git* — Source Code

- PWA written in **ReactJS** for the front-end and uses a number of libraries (**moment.js**, **chart.js**, ...) and **Firebase** for the back-end.
- University booklet that allows you to manage exams and fees to be paid with **graphs** and personal **statistics** granted by authentication
- Optimized website for **speed and user experience** and **responsive design** to ensure compatibility across all devices
- Uses a **service worker** to work offline
- Uploaded on GitHub pages via Git commands

Crafty — *Python* — Source Code

- **Web scraping** and **data analysis** project (in particular data mining and clustering)
- Using libraries (**mathplotlib**, **networkX**, **numpy**, **scipy**, ...) for data analysis and scraping/crawling
- First part is based on data mining from a Dataset and plot some **statistics**
- Second part is based on **address clustering** algorithm
- Third part is based on web scraping to **deanonymize** top 10 clusters

Wordle — *Java* — Source Code

- **Client-server** functionality that reproduces a clone of the famous Wordle game
- Take advantage of the "**multi-thread**" feature to allow multiple users to register and play
- Use **JSON** files and the **GSON** library to work efficiently with them

Certifications

- B1 Cambridge