

# Mario Di Modica

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## ABOUT ME

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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. 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 web applications but I am still very open to new experiences to discover new fields of information technology. I have a great knowledge of English with a B1 Cambridge certification.

## TECHNICAL SKILLS

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

## EXPERIENCE

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### Sonatrach Raffineria Italiana

Full Stack Developer Intern

Siracusa, Italy

July 2023 – Oct 2023

- Curricular internship with the aim of developing a multi-user Web App that allows the management and visualization of some important values taken from the refinery plants, and then produce a series of reports and statistics charts. The technologies used include Angular + Bootstrap for the Front-End and .NET Core and C# + Microsoft SQL Server for the Back-End (with the help of additional libraries or APIs to efficiently query the Database).

## EDUCATION

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### University of Pisa

Bachelor's degree in Computer Science

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Pisa, Italy

Sep 2020 – Oct 2023

### Liceo Scientifico L. Einaudi

Diploma

90/100

Siracusa, Italy

Sep 2015 – Jun 2019

## PROJECTS

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### LoveJob

Angular, .NET Core, C#, TypeScript, Bootstrap, SQL, Git

[Source Code](#)

- It's main goal is to simplify job seeking for people who's searching for a job. The Front-End part is completely written in **Angular** with **TypeScript** (with **Bootstrap** and CSS for the styles) and the Back-End part is written in **C#** using **ASP.NET Core** as a framework to use **Models & Controllers** and it's connected with **Microsoft SQL Server** to query the data from Database

### 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. It's an 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**, **responsive design** to ensure compatibility across all devices and uses a **service worker** to work offline

### Crafty

Python

[Source Code](#)

- Web scraping** and **data analysis** project (in particular data mining and clustering) using libraries (**matplotlib**, **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