MICHELE MOZZO

Junior Software Engineer

PROFESSIONAL SUMMARY

I am an **autodidact software engineer**, who recently approached the world of web development. I know how to operate on the **full stack of web applications**, but I am particularly enthusiastic about **frontend development**. I am passionate about the subject and am a **fast learner**, approaching every challenge with an **open mindset**.
My educational **background in Physics** helped me in building my **problem-solving skills**, that I can now apply to every real-life situation. I also developed a **strong logical thinking**, which helps me to approach any challenge with **realistic and pragmatic solutions**.
I am self-motivated and capable of working in a **fast-paced, agile and multidisciplinary environment**.

SKILLS

React.js
Advanced knowledge of the frontend library implemented with **JavaScript** and **TypeScript**

TypeScript
Intermediate programming knowledge and working experience with form validation libraries, such as **Zod** and **Yup**

Spring Boot
Intermediate knowledge of the framework implemented in backend applications with **Java**

Python
Advanced programming knowledge

MongoDB
Intermediate experience with document-oriented **NoSQL** database program

Matlab
Intermediate programming knowledge

Operating Systems
Linux, Windows, iOS

LANGUAGES

English
Fluent

Italian
Native

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Michele Mozzo
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WORK EXPERIENCE

Software Developer Trainee - **P3 Financial Group**
Helsinki | Oct 2021- Nov 2022

- Sole developer of an independent application written from scratch using **Typescript**, **TurboRepo**, and **Next.js**. We utilized cutting edge libraries including: **Zod**, and **Yup** for form validations, **react-query** for data fetching, and a modified **Chakra-UI** for our components. We employed **CI** and **CD** in **Gitlab** using **docker** containers for deployment.
- Tested, debugged and developed a **form application**. The entire operation has involved mostly frontend work in **JavaScript,** but some backend adjustments using **Java Spring Boot framework** were required as well.
- Enhanced an already existing **portal application** for showing and sorting of data. The application was used to visualize and handle personal data. When I joined the project, new requirements came in from the client to show more data and enhance the ways of searching and sorting through them, which I implemented. The project was running on a **Java backend** with a **JavaScript frontend**.
- Implemented Earth observation satellite images into a map layer website to display environmental features and data. The data were taken from open sources provider, mostly ESA, then processed in **Python** and fetched to **GeoServer** to host and refine the appearance before displaying them on a **Leaflet** open map layer.

PROJECTS

Master´s Thesis - **Modelling electromagnetic emission from Kilonovae: photosphere and temperature profiles**
Trento, Italy | Dec 2020 - May 2021

- Developed a predictive computational model to study Kilonovae emissions.
- The simulations have been coded in Python working on a Linux OS.
- Performed results validation using data analysis methods such as regression processes, chi squared tests and autocorrelations computations.

0x00ff00 - **Junction 2022, “Green code now you must” CGI challenge**
Espoo, Finland | Nov 2022

- Developed simple post **blog website** with energy consumption reduction mindset, for a challenge sponsored by CGI at Junction 2022. Our team was composed by three people in total.
- I developed most of the **frontend**. The implementation has been done in the simplest way possible to reduce energy usage to the minimun. Implemented using **JavaScript** and **React.js**.
- I profiled and evaluated **energy usage** from **CPU** components to implement requests configuration that maximized energy efficiency.
- The **project placed second** out of the 20+ teams that worked on the challenge.

EDUCATION

Univeristy of Trento - **M.Sc. in Theoretical and Computational Physics**
Trento, Italy | Sep 2018 - May 2021
120 ECTS in “Theory of Fundamental Interactions and Cosmology”

Univeristy of Trento - **B.Sc. in Physics**
Trento, Italy | Sep 2015 - Sep 2018
180 ECTS in the areas of quantum mechanic, statistical physics, computational and mathematical methods.

INTERESTS AND OTHER SKILLS

My academic background helped me stimulate my curiosity which is always driving me towards learning new things.
In the University I also built a strong problem-solving mindset that can help me to sort out most of the challenges I have to deal with. Thanks to the friendly and stimulating environment I had also the chance to work and cooperate with many people from different backgrounds which led me to develop communication and facilitation skills essential in teamwork.