

Mariam Nozadze

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Skills

Front-end libraries and frameworks | Backend development technologies :

Javascript | **Typescript** | **React** | **NodeJS** | **Python** | **PHP** | **MySQL** | **Git** | **Linux** | **Docker** | **Nginx** | **Jest**

For website designing and etc: **Html** | **Css** | **Sass** | **TailwindCss** | **Bootstrap** | **Webflow** | **A-Frame** | **AR.js**

Experience

Software Engineer

Nuclear Engineering Center

Tbilisi, Georgia

2022 - present

- Collaborated with **CERN**, the European Organization for Nuclear Research, to enhance critical software applications.
- Refactored **Atlas Viewer** application, a powerful visualization tool instrumental in supporting physics research at CERN. This application enables researchers to visualize the complex geometries of CERN's Atlas detector, facilitating better understanding and analysis of experimental data.
- Implemented performance improvements in applications using TypeScript, React, and Three.js, resulting in a 25% increase in efficiency and user satisfaction. Ensured smooth functionality and timely delivery.
- Identified and resolved errors in Three.js applications, ensuring seamless functionality and reducing downtime by 20%.

Junior Software Engineer

Freelance

Tbilisi, Georgia

2021 - 2022

While pursuing my studies in web development, I gained practical experience as a freelance web developer. I created websites and web pages for clients, applying theoretical knowledge to real-world projects and mentoring newcomers to the field.

- Strengthened problem-solving, debugging skills, code efficiency
 - Gained proficiency in responsive design and cross-browser compatibility
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Education

Bachelor's Degree in Business Management

Georgian National University

Tbilisi, Georgia

2015 - 2019

Projects

Atlas Viewer - Built using TypeScript, React, and Three.js, this application is designed to visualize the intricate structures of CERN's Atlas detector. The project showcases my proficiency in modern web development frameworks and libraries. Implemented advanced rendering techniques and optimized performance to handle large, complex datasets, ensuring smooth and responsive user interactions.

Surface Detection - Augmented reality (AR) project built with A-Frame, Three.js, JavaScript and WebXR. It allows users to place a 3D model in their environment. The app prompts users to scan their surroundings to detect a flat surface before placing the 3D model.

Languages

English, Georgian - professional proficiency