

Ishan Agarwal

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Education

Bachelor of Technology in Information Technology

August 2022

Manipal Institute of Technology, Mangalore, Karnataka

Skills

- Web development: HTML, CSS, JavaScript
- Database management: SQL, MongoDB
- Graphics Programming: C/C++, Odin

Projects

Text Editor

June 2022

<https://github.com/ishan9299/editor-opengl>

This is a text editor written in scratch in C using the Win32 API. It has a custom text rendering engine which generates a texture atlas of a font and uses batch rendering to render the text.

React Form

May 2023

<https://github.com/ishan9299/React-Form>

This is an online submission form built in React using the react-hooks-form library. The form checks if mandatory fields are filled or not. If not it displays an error message. It also checks if users entered a valid Aadhaar number or PAN card number. It stores the data the users submits in a mongodb database. For the backend it uses the mongoose library.

Tasks

May 2023

<https://github.com/ishan9299/Tasks>

This is a web app written in Go. It uses MySQL for the backend database. It allows users to add, edit and delete the tasks they added.

Personal Website

June 2023

<https://ishanagarwal.xyz>

This is my personal static website built from scratch using HTML and CSS.

Extrinsic properties of camera

June 2023

<https://github.com/ishan9299/extrinsic-properties-of-camera-opengl/>

This is a project which calculates the view matrix using the extrinsic properties of the camera. It also allows you change the extrinsic properties live and see the changes in real time.

Store Monitoring

August 2023

<https://github.com/ishan9299/store-monitoring>

This is a project which generates a csv file which contains uptime for different stores over the week. This also involved the handling of missing data which was achieved through jupyter notebook and pandas. The database used is mysql and the server was written in go.

Certifications

Machine Learning

November 2022

Coursera