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Projects

Password Generator and Manager

This website is built using the MERN stack and Tailwind CSS. Its main purpose is to help users generate and save passwords in their own secure vault. Think of it like a one-stop solution to keep all your important passwords safe, similar to using an authenticator.

News App

This project uses React and Tailwind CSS to create a user-friendly frontend. The backend, powered by Python's Flask library, fetches news from Google News and categorizes them. This combination allows users to easily explore and stay updated on different news topics.

Smart Security System

In this Raspberry Pi project, the alarm is intelligently activated upon detecting motion through a motion sensor. The Pi camera plays a pivotal role by capturing an image at the moment of motion detection. This synchronized mechanism ensures that not only is the alarm triggered to alert the surroundings, but also a visual record is captured for further analysis. The integration of both the motion sensor and the Pi camera enhances the project's functionality, providing a comprehensive approach to security monitoring. The entire system is governed by the Arduino code, orchestrating a seamless interaction between the Raspberry Pi components.

Skills

- ReactJS
- Java
- Docker
- ExpressJS
- HTML
- Python
- NodeJS
- CSS
- MongoDB
- JavaScript
- Tailwind
- Kubernetes

Internships

RRSC-North(ISRO), New Delhi

Disaster Information Portal   10/2022 -05/2023

- Developed a web-based dashboard for disaster management as there was no prior single platform for showcasing everything under one hood. Leveraged skills in web development, GIS (Geographic Information System), and data visualization to create a comprehensive and user-friendly dashboard for disaster management purposes during my internship at ISRO.
- Integrated antecedent moisture condition and flood layers of pan India for visualization.
- Implemented a display of daily disaster-related news across India, highlighting the most prominent news through a heatmap, organized by state.
- Created a user-friendly interface allowing users to input points and generating the shortest path.
- Incorporated an alternate path functionality to navigate hindrances during flood times, ensuring continuity in navigation.
- Enabled users to input coordinates and buffer distance to obtain a list of the nearest hospitals.
- Integrated this tool to aid in disaster scenarios, facilitating quick access to medical facilities.

Dreamsol, Noida

Employee Data Management System   07/2022 – 08/2022

- Developed a robust web application using Spring and Hibernate technologies to manage employee data efficiently.
- Implemented secure user authentication, allowing administrators to log in and perform CRUD (Create, Read, Update, Delete) operations on the employee database.
- Designed a user-friendly interface enabling administrators to add new employee records, update existing information, and delete outdated entries.
- Utilized Spring Framework for dependency injection, facilitating a loosely coupled architecture, and Hibernate ORM (Object-Relational Mapping) for seamless interaction with the underlying database.

Education

Bachelor of Technology in Computer Science   **2023**

The NorthCap University | Gurugram, HR