

Dipu Kumar Sah

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PROJECTS

Batch Management | (batchmanagemnt.vercel.app/)

GitHub Frontend GitHub Backend
MERN Full Stack

React.js, Redux, Node.js, Express.js, Tailwind CSS, MongoDB

- Developed a robust web application for student batch management, leveraging **Reactjs, Redux, NodeJS, ExpressJS, tailwind css and MongoDB**. Implemented **secure authentication using JWT and cookies**, ensuring sensitive information is protected.
- Designed and implemented **RESTful APIs** to facilitate efficient management of student data, including **CRUD operations**, error handling and security measures to protect user data. Utilized Formik and Yup for robust form validation and user input handling.
- Successfully **deployed the application on cloud based services Vercel and Render**, overcoming **CORS challenges** to ensure seamless communication between front-end and back-end components.

Timetable Generating System

GitHub Frontend GitHub Backend
MERN Stack

React, React Router, Nodejs, Express, MongoDB

- Developed a web app for schools and universities using a **custom-built genetic algorithm** to automate timetable generation based on teacher inputs, ensuring conflict-free scheduling.
- Implemented back end functionalities with javascript, nodejs, Expressjs, and mongodb for user authentication, data storage, and Restful API; and built a responsive react front end with React Router for smooth navigation.
- Overcame challenges in designing and writing the genetic algorithm to **manage multiple constraints efficiently, reducing manual workload** and improving scheduling accuracy for educational institutions.

Travel and Tourism

GitHub
Web Development

html, css, js, php, mysql

- Developed a simple website for booking and planning tickets and packages for tourism places.
- Used html5, css3, javascript, php, bootstrap and mysql

EXPERIENCE

Mobile App Development Android – Intern

July 2023 - Oct 2023

Analysed

LETTER OF INTERNSHIP APPRECIATION

- Developed an **automated email-sending** feature using PHP and MySQL for user signup, while enhancing the user interface and integrating rest api modifications for weight tracking and statistics.
- Implemented **OTP-based password resets**, profile management with picture updates, and thoroughly tested in-app/push notifications for sleep tracking and step count.
- **Overcame challenges in integrating email automation with backend systems** and optimizing real-time data handling, improving user engagement and app reliability.

Python and Machine Learning – Intern

Aug 2023 – Sep 2023

KARUNADU TECHNOLOGIES PVT. LTD.

Certificate of Completion

- I had the opportunity to learn Python, Machine Learning and analysis model
- Designed and developed a happiness project, leveraging various datasets and algorithms to predict either a person will be happy or not before buying a house.

TECHNICAL SKILLS

JavaScript and MERN Stack: javascript , NodeJs, TypeScript, ReactJS, ExpressJS, Redux, React Router, MongoDB, GraphQL

Java and Spring Boot: java, JDBC, hibernate, jpa, Spring Framework, Spring Boot, sql, postgresql

Other languages & Tools: c, python, react native, php, ajax, git, github, postman, nosql, mongooses, API Development

EDUCATION

RR Institute of technology

B.E. in Computer Science & Engineering (GPA: 7.86/10.0)

Bengaluru, India
Aug 2020 – June 2024

OM National Academy

Pre-University Percentage: 71.5%

Birgunj, Nepal
Aug 2017 – May 2019