GHANASHYAM KHANAL

Experienced Full Stack Web Developer

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Skills

Web Development · HTML5 · CSS3 · PHP · SQL · ReactJs · Solidity · Hardhat · Javascript · NodeJs · Git · MongoDB · Socket.io · Express

Summary

Passionate about Information Technology with **1 year of experience** in creating scalable web applications using **Node.js**, **PHP**, and **MySQL**.Known for **strong problem-solving skills**, attention to detail, and the ability to collaborate effectively in fast-paced environments. Passionate about continuous learning and growth in the web development field

Strengths

⚡ **Web App Development**
Expert in developing user friendly web apps.

🏅 **Web Technologies**
Proficient in web technologies

💬 **Communication Skills**
Known for excellent communication

WORK EXPERIENCE

InfoxIT   Butwal,Nepal
Backend Developer   03/2024 - 06/2024

ERP Software

- Engineered scalable backend solutions using **Node.js** and **Express**, integrating with **MySQL** for efficient data management.
- **Optimized SQL queries** to enhance data retrieval speed and overall application performance.
- Developed and deployed **10+ APIs**, enabling smooth integration with front-end systems and third-party services.
- Collaborated effectively with cross-functional teams, including backend developers, designers, and project managers, to deliver **high-quality software solutions** on time.
- Maintained clean, **maintainable code** while ensuring optimal functionality and reliability across all projects.

Mega Digits   Butwal Nepal
Front End Web Developer   04/2021 - 06/2021

Performed frontend coding from scratch.

- Designed and Developed Dynamic website from scratch.
- Tools used: HTML,CSS,Javascript,Bootstrap,PHP.
- Site URL: https://newhorizoncollege.edu.np/

Education

Tribhuvan University Institute of Engineering   Butwal, Nepal

Bachelor's Degree in Computer Science and Information Technology - (2019 - 2023)

PERSONAL PROJECTS

Data Cleaning and Analysis Project

Performed **data cleaning** on a dataset containing real-world information about the number of employees **laid off by companies** from **2000 to 2023** using **MySQL**. The goal was to better understand **data analysis** by cleaning, organizing, and preparing the data for further insights. This project helped me develop practical skills in **data manipulation**, **query optimization**, and **data integrity**.

CSV-Header-Mapping - (PHP)

Developed a **web application** using **PHP** that allows users to **upload a CSV file**, modify the column headers, and **download the updated CSV**.
This web app provides a user-friendly interface for seamless mapping of headers as needed, ensuring a smooth and efficient user experience.
This project demonstrated proficiency in **file handling** and **data manipulation** with **PHP**, while enhancing user interaction with file-based data.

https://github.com/aashisKh/csv-header-mapping

PERSONAL PROJECTS

Monthly Task Schedular - (MERN)

Built a **monthly task scheduler** application using **Node.js** and **MySQL** for the backend, and **React** for the frontend.
Users can **schedule tasks**, perform **CRUD operations**, and receive timely notifications.
This project highlights my skills in **task management**, **CRUD functionality**, and building **full-stack applications**.

CampusHub - (MERN)

Developed a **dynamic backend** to support the web application, enabling the creation of specific classrooms and providing the functionality to **upload assignments**.
Implemented **Socket.io** for real-time communication, allowing users to send and receive messages instantly.
Utilized the **Knuth-Morris-Pratt (KMP)** algorithm for **plagiarism detection** in uploaded assignments, with customizable threshold values for string matching.
Built a robust **REST API** to handle frontend requests and responses efficiently.
Integrated **Passport.js** for **secure user authentication**, ensuring proper validation of user requests.
Implemented **NodeMailer** to send **OTP** for **user verification** during registration and login.
Utilized **JWT (JSON Web Tokens)** for **secure authentication**, issuing tokens upon successful login or registration for seamless user sessions.

Collaborative Real-Time Text Editor - (Node, HTML,CSS,JS)

Developed a **real-time collaborative text editor** using **Node.js** for the backend and **HTML, CSS, and JavaScript** for the frontend. Multiple users can **request to edit** a shared text, and upon approval, they can edit the text simultaneously. Leveraged **Socket.io** to enable **real-time communication**, allowing seamless updates and synchronization between users' edits, enhancing collaboration and user interaction in real-time.

Codes Wear - (NextJs)

Developed an **e-commerce application** using **Next.js** and **MongoDB** where users can **upload brand goods** (e.g., t-shirts) and add them to the **shopping cart**. The app features a user-friendly interface to manage product listings and facilitates seamless **cart management** for a smooth shopping experience.

Hardware Inventory Management System - (NodeJs)

Developed a **hardware inventory management system** using **Node.js** where users can keep track of hardware details like **name**, **brand**, and **expiry date**. The system sends an email notification when any item's expiry is less than a month, ensuring timely alerts. Integrated **OAuth 2.0** for secure email sending functionality, enabling automated reminders and efficient hardware management.