

Ashutosh Khanal

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Profile Summary

I am a student pursuing BSc. CSIT degree, working on several personal web projects and learning more about it. I am currently learning REACT on my web development journey. I am looking for experience to improve my skills and work on new web development projects.

Skills

Languages: HTML, JAVASCRIPT, PHP, SQL, Python

Libraries/Frameworks: REACT, Tailwind, Flask

Database: MySQL

Soft Skills: Problem-solving, Team collaboration, Communication

Education

NCCS College	2021 - Present
B. Sc. Computer Science and Information Technology (B.Sc. CSIT)	
Trinity Int'l College	2018 - 2020
+2 Science – CGPA: 3.03	
Golden Peak High School	2018
Secondary Education– GPA:3.5	

Projects

Secure Password Manager with Firebase and React

REACT — Github

- Designed and developed a Secure Password Manager using React and Firebase Firestore for storing and managing user credentials efficiently.
- Implemented `useState`, `useEffect` and `useRef` hooks to handle dynamic data fetching, form interactions, and real-time updates.
- Users can securely save email-password combinations, view stored credentials, toggle password visibility, and copy passwords with a single click.
- Integrated full CRUD functionality, enabling users to create, update, and delete their stored passwords, with instant UI updates using Firebase Firestore.
- Enhanced user experience with (`react-icons`), real-time toast notifications (`react-toastify`), and a responsive UI for seamless usability.

Random Password Generator

REACT — Github

- Developed a Random Password Generator using React, utilizing `useEffect` and `useCallback` hooks to generate secure passwords dynamically.
- The application allows users to customize password length and character types, ensuring strong and flexible password generation.

Digital Gunaso (Team Project)

HTML, CSS, JS, PHP, MySQL — Github

- Collaborated in a team during a hackathon to develop a digital grievance management system, enabling users to log in, file complaints, and track updates, streamlining issue resolution across multiple departments.

- Contributed to implementing a status management feature to update complaints as 'Completed,' 'In Progress,' or 'Pending,' ensuring transparency and accountability.
- Worked on integrating an LLM to provide immediate responses, including hotline information, enhancing user satisfaction.
- Assisted in automating complaint routing to respective departments based on categories, improving operational efficiency.

Ecommerce Product Recommendation System

Python, Flask, HTML, CSS, JS — Github

- Designed and implemented a content-based recommendation system using TF-IDF vectorization and cosine similarity to suggest products based on user preferences and product descriptions.
- Analyzed a dataset of 5000+ products to generate personalized recommendations, improving user engagement through enhanced product discovery.
- Developed an intuitive Flask-based web interface to display recommendations, integrating seamless navigation and a responsive grid layout for better user experience.

Zoo Website (Chidiya Khana)

HTML, CSS, JS, PHP, MySql — Github

- Developed a Zoo Management System using PHP and MySQL, allowing users to view animal details, purchase tickets, and explore available exhibits.
- Implemented an admin panel with CRUD operations for managing animal data, ticket sales, and exhibit information, streamlining administrative tasks.

Relevant Coursework

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|---------------------------------|-------------------------------|
| • Python Workshop, NCCS College | • Java Workshop, NCCS College |
| • React Course, Codecademy | • PHP Workshop, NCCS College |

Experience

Teaching — KMC Festival Camp

21 October - 30 October

Certificate

- Certificate in Web Development, CodSoft —View Credentials

Reference

Amar Shrestha

Senior Software Engineer, Techkraft Inc

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