

SIDDHANT RAI

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🐙 GitHub 🔗 LinkedIn 🌐 Portfolio

SUMMARY

I'm a dedicated Web Developer with a diverse portfolio that spans backend-heavy applications, real-time platforms, and interactive user experiences. I built WiselyWheel—a dynamic auto comparison web app—leveraging EJS, Node.js, and MongoDB to implement sophisticated data storage and ranking systems. Currently, I'm developing an Uber Clone with the MERN stack, featuring real-time ride tracking through WebSockets and robust user authentication. I've also recreated a pixel-perfect version of ThirtySix Studio with React and GSAP, focusing on smooth, engaging animations, and crafted an Employee Management System with React and Tailwind CSS to streamline task workflows. My passion for real-time, multiplayer experiences led me to build a Chess Game using Socket.io, ensuring synchronized gameplay and move validation. Additionally, I'm exploring the intersection of machine learning and video processing with the Flashkick Football Highlight Generator, employing React, Flask, and 3D CNNs to extract key match moments. My work is driven by a commitment to clean code, modular design, and solving real-world problems with a human touch.

EDUCATION

Lalitpur Engineering College
Bachelor in Computer Engineering

2021 – Present
Lalitpur, Nepal

CERTIFICATES

React.js Certificate — [Verify Certificate](#)

JavaScript Certificate — [Verify Certificate](#)

RELEVANT COURSEWORK

- Web Development
- Software Engineering
- Database Management
- Artificial Intelligence
- Internet Technology
- Computer Architecture
- Data Mining
- Data Structures and Algorithms

PROJECTS

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|---|------------------|
| Uber Clone — MERN Stack (React.js, Node.js, Express.js, MongoDB) <ul style="list-style-type: none">– Developing a ride-hailing app with real-time ride tracking using WebSockets.– Implemented user authentication and role-based access control. | Ongoing |
| WiselyWheel: Auto Comparison Web App — EJS, JavaScript, Node.js, MongoDB <ul style="list-style-type: none">– Developed a backend-heavy app for comparing two-wheelers using dynamic data storage.– Implemented a ranking system based on user feedback and vehicle specifications. | Completed |
| ThirtySix Studio Clone — React.js, GSAP, ESLint <ul style="list-style-type: none">– Recreated a pixel-perfect replica of the website with interactive animations.– Optimized performance by adhering to modular design principles. | Completed |
| Employee Management System—ReactJS, Tailwind CSS, ESLint <ul style="list-style-type: none">– Developed a responsive and user-friendly interface for an Employee Management System to streamline task management.– Implemented features for admin roles to assign tasks and employees to track completed, pending, and failed tasks. | Completed |
| Chess Game — Socket.io, JavaScript, NodeJs <ul style="list-style-type: none">– Built a real-time multiplayer chess platform using WebSocket communication.– Implemented synchronized game states and move validation. | Completed |
| Flashkick Football Highlight Generator — ReactJS, Flask, 3D CNN <ul style="list-style-type: none">– Developing a system to generate highlights from football match videos using frame selection and transcription.– Utilizing 3D Convolutional Neural Networks (3D CNN) for model training and feature extraction. | Completed |

SKILLS

Languages: JavaScript, Python, C, C++

Libraries: React.js, GSAP

Frameworks: Node.js, Express.js, Flask

Tools: ESLint, MongoDB, Git, Whisper, MoviePy

Technologies: MERN Stack, JWT, RESTful APIs, WebSockets

Other: Responsive Design, Agile Development, Authentication