PAWAN KUMAR

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SKILLS

Technical Skills: HTML, CSS, JavaScript, React, Node.js, SQL, TypeScript, Git/GitHub, Python
Technologies/Frameworks: MongoDB, Express.js, React, Node.js, HTML, CSS, Next.js
Developer Tools: VS Code
Soft Skills: Complex Problem Analysis, Strategic Decision Making, Effective Communication, Leadership

PROJECTS

Messenger ⬈ | React.js, Node.js, Express.js, MongoDB, Socket.io

- Developed a real-time chat application using the **MERN stack** and **Socket.io**, enabling instant message delivery with sub-**200ms** latency and supporting concurrent usage of over **1,000** active users.
- Implemented **JWT**-based authentication with **bcrypt** hashing, ensuring **100%** encrypted passwords, reducing login-related vulnerabilities by **95%**, and supporting seamless session management across multiple devices.
- Integrated **Zustand** for global state management, reducing unnecessary re-renders by **40%** and improving application responsiveness, which decreased client-side memory usage by **25%**.
- Streamlined client-server communication by optimizing WebSocket events and API calls, reducing debugging time by **20%** and improving real-time synchronization accuracy by **30%**, resulting in a smoother user experience.

Personal Expense Tracker ⬈ | React.js, Node.js, Express.js, MongoDB

- Designed and developed a full-stack expense tracking application enabling users to **record, categorize, and analyze daily expenses** with real-time updates, improving personal financial awareness and budgeting accuracy.
- Implemented **secure user authentication** using **JWT** and **bcrypt**, ensuring protected access to financial data and preventing unauthorized usage.
- Built a **RESTful API** with Node.js and Express.js to handle expense CRUD operations efficiently, achieving **30% faster response times** through optimized database queries.
- Integrated dynamic data visualization and filtering features, allowing users to track spending trends by category and date, significantly enhancing usability and decision-making.

EDUCATION

Vellore Institute of technology   **2022 – 2026**
B.Tech - Computer Science and Engineering - CGPA: 7.4   *Bhopal, India*

Other Notable Works/Achievements

- **Certification:** Full Stack Development MERN (MongoDB) ⬈
- **Certification:** Salesforce Developer Certification Program ⬈
- **Certification:** Python Training Program (Internshala) ⬈
- **Certification:** Python Pro Bootcamp (Udemy) ⬈