

# PAWAN KUMAR

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## SKILLS

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**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

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### [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 **brypt**, 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

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Vellore Institute of technology

B.Tech - Computer Science and Engineering - CGPA: 7.4

2022 – 2026

Bhopal, India

## Other Notable Works/Achievements

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