Pawan Kumar

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SKILLS

- **Languages**   Java, C++, C, JavaScript, TypeScript, SQL, Python, HTML, CSS
- **Frameworks**   Bootstrap, Tailwind, NodeJS, Reacts, Appwrite
- **Tools/Platforms** MongoDB, MySQL, PostgreSQL, Git, GitHub, Postman, VS Code
- **Soft Skills**   Problem-Solving, Team Player, Project Management, Adaptability

PROJECTS

Advanced YouTube Backend System   Dec 2024 - Jan 2025

- Designed and implemented a scalable backend for a YouTube-like platform using **Node.js**, **Express**, and **MongoDB**, efficiently handling 4K+ user interactions with 99.9% uptime while integrating secure authentication with **JWT** and **bcrypt.js**. Implemented **access** and **refresh** tokens alongside structured middleware, reducing API failures by 30% and enhancing system security.
- Optimized 10+ RESTful APIs for video uploads, comments, likes, and subscriptions using **MongoDB aggregation pipelines**, significantly improving query efficiency by 40% and ensuring consistently fast response times.
- Integrated Cloudinary cloud-based storage for video uploads, allowing 500MB+ per user while ensuring efficient file management and smooth streaming without buffering.
- GitHub Repository: YouTube Backend

Room Booking Platform   Jun 2024 - Jul 2024

- Engineered a travel booking platform with **EJS**, **Node.js**, and **MongoDB**, supporting 1,000+ properties while ensuring secure **JWT**-based authentication and smooth navigation. The dynamic property listing system updates availability in real-time, allowing users to explore and book accommodation easily.
- Redesigned the UI for responsiveness, improved accessibility across devices, and reduced bounce rates by 30%, leading to increased user engagement. Optimized back-end queries to cut search response times to under 100ms, improving the platform's efficiency.
- GitHub Repository: Room Booking

Movie Streaming Platform   Feb 2024 - Mar 2024

- Built a movie streaming platform using **React.js**, **Node.js**, and **MongoDB**, serving 10,00+ users/month with **JWT-based authentication** for personalized recommendations. The backend infrastructure was scaled to handle 500+ concurrent users without performance degradation, ensuring a smooth streaming experience.
- Developed 15+ RESTful APIs for content delivery, user management, and search, boosting query efficiency by 50%. The UI was modernized with a mobile-friendly design, integrating **Redux** for efficient state management, which reduced page load times by 35% and improved navigation.
- GitHub Repository: Movie App

CERTIFICATES & ACHIEVEMENTS

- **Backend Development**   Physics Wallah   Mar 2024
- **Data Structures and Algorithms**   Board Infinity   Jul 2024
- **Solved 700+ Problems** on LeetCode and GeeksforGeeks

EDUCATION

- **Lovely Professional University Punjab**   Aug 2022 – Jun 2026
  B. Tech in Computer Science and Engineering — CGPA: 8.22   Phagwara, Punjab
- **+2 High School Atka (JAC Board)**   Jun 2021 – May 2022
  Intermediate (Science) — Percentage: 93.4%   Giridih, Jharkhand
- **High School Atka (JAC Board)**   Jun 2019 – May 2020
  Matriculation — Percentage: 87.8%   Giridih, Jharkhand