

PRANSHU SHARMA

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Summary

- Computer Science undergraduate building scalable backend and full-stack systems using the MERN stack and Java.
- Experienced in designing RESTful APIs, implementing JWT-based authentication, and applying role-based access control and modular architecture principles.
- Strong understanding of Data Structures, Algorithms, Object-Oriented Programming, and system design fundamentals including scalability, load handling, and database optimization.
- Familiar with AWS cloud services, Linux systems, virtualization concepts, and cloud computing fundamentals.

Projects

- **Staffly – HRMS (MERN Stack)** staffly-sable.vercel.app
Full Stack Developer
 - Engineered a modular full-stack HRMS supporting employee management, attendance tracking, leave workflows, and payroll processing.
 - Designed and implemented 15+ RESTful API endpoints using Node.js and Express with optimized MongoDB schema design to reduce redundant queries.
 - Integrated JWT-based authentication and role-based authorization to secure administrative and user-level operations.
 - Structured backend services following separation of concerns and scalability-focused design principles.
- **Spendora – Subscription Management Dashboard** spendora-livid.vercel.app
Full Stack Developer
 - Built a real-time subscription tracking system using Socket.IO to manage live renewal alerts and recurring expense updates.
 - Implemented authentication middleware and protected APIs to ensure secure access to financial data.
 - Designed analytics logic to dynamically compute monthly spending summaries and recurring cost breakdowns.
 - Applied system design concepts including modular backend structure and efficient data flow handling.

Technical Skills

- **Languages:** Java, JavaScript, C++, Bash
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS
- **Backend:** Node.js, Express.js, Spring Boot
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Cloud & DevOps:** AWS (EC2, S3, IAM), Linux, Virtualization, Shell Scripting, Docker
- **Tools:** Git, GitHub, Postman
- **Core Concepts:** Data Structures & Algorithms, OOP, DBMS, Operating Systems, REST Architecture, System Design

Leadership / Extracurricular

- Collaborated in team-based technical projects using Git workflows and Agile development practices.
- Mentored peers in backend development fundamentals and structured problem-solving techniques.

Education

- **Chitkara University, Rajpura** 2023 – 2027
Bachelor of Technology in Computer Science Engineering Punjab, India
- **GMSS Sector 33, Chandigarh** 2021 – 2023
Senior Secondary (Class XII) Chandigarh, India
- **St. Anne's Convent School (CBSE)** Passed in 2020
Secondary Education (Class X) Chandigarh, India