



# VAIBHAV SAXENA

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## SUMMARY

Dedicated backend developer skilled in Node.js, MongoDB, and API development, with a proven ability to build scalable, high-performance applications and optimize database management. Committed to problem-solving and delivering technical solutions that drive project success.

## TECHNICAL SKILLS

**Frontend:** HTML, CSS, JavaScript, EJS, jQuery

**Backend:** Nodejs, Express js

**Database:** MongoDB

**Programming Languages:** JavaScript, Python, C

**Tools/Platforms:** Git/GitHub, Visual Studio, Google Colab, Postman

## PROJECTS

### Realtime Chat App (WhisperWave)

[Source Code]

- Developed a real-time chat application enabling seamless, low-latency communication for users.
- Utilized **Node.js, Express, MongoDB, EJS, Socket.io, JavaScript**, and integrated push notifications for enhanced user engagement.
- Optimized server-side processing to achieve faster message delivery, reducing latency by 25% and supporting up to 100 concurrent users.

### Local Grocery Shop Management App (LGSM)

[Source Code]

- Engineered a user-friendly interface that enabled real-time inventory updates; reduced manual entry errors by 30% while enhancing customer satisfaction for both shopkeepers and end-users through improved interaction with the system.
- Leveraged **Node.js, Express, MongoDB, and Flutter** to build robust backend services while coordinating frontend development with team members.
- Currently refining the database architecture and backend logic for scalability and seamless functionality.

### Advanced To-Do List with Collaboration Features

[Source Code]

- Created a collaborative to-do application, enabling real-time task sharing and updates for teams.
- Built with **Express, MongoDB, EJS, Web Push API, Socket.io, and JWT**, ensuring secure authentication and seamless collaboration.
- Actively working on finalizing the frontend interface and enhancing real-time collaboration features.

### KhataBook App

[Source Code | Website]

- Developed a digital ledger application for managing financial records, allowing users to create, edit, and share khatas securely.
- Employed **Node.js, Express, MongoDB, EJS, and JWT** to build secure backend logic and scalable database architecture.
- Ensured a 20% improvement in task completion time for users through a responsive UI and robust authentication system.

## EDUCATIONAL QUALIFICATIONS

### Pranveer Singh Institute Of Technology, Kanpur, UP

2021-Present

*Bachelor of Technology*

6.8 GPA

*Computer Science and Engineering(A.I.)*

### Avadh Collegiate, Lucknow UP

2020-2021

*Intermediate*

71.1%

## CERTIFICATES & ACHIEVEMENTS

- Completed **The Complete 2024 Web Development Bootcamp** on Udemy, demonstrating a strong foundation in modern web technologies and frameworks.
- Earned an **Intermediate Certification in JavaScript** from HackerRank, showcasing proficiency in core and advanced JavaScript concepts.
- Achieved **5-star ratings in Problem Solving and Python** on HackerRank, highlighting excellent problem-solving abilities and Python expertise.