

# ANSHUL SINGH

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## SKILLS

- **Programming Languages** – C, C++, Java, Python, HTML, CSS, Javascript
- **Libraries / Frameworks** – React JS, React Native, Node JS, Express JS, Tailwind CSS
- **Databases** – MongoDB, MySQL, SQLite

## EDUCATION

- **MET's Institute of Engineering, Nashik** | B.E. Computer Engineering (SGPA – 8.70) (2022-26)
- **PVP Sainik School, Loni** | HSC (12<sup>th</sup> Grade) – 69.67% (2022)
- **PVP Sainik School, Loni** | SSC (10<sup>th</sup> Grade) – 85.00% (2020)

## PROJECTS

- **Complaint Addressal Portal** [🔗](#)  
Developed a **full-stack web application** for streamlined complaint management, **reducing complaint registration time by 50%** through a simplified UI. Implemented **multi-role access** with user and admin roles. Designed and optimized MongoDB schema to **improve query performance by 40%** using **indexes**. Created **RESTful APIs** with **Node.js and Express.js** to handle complaint submissions, updates, and admin actions.
- **Dobby - Discord Bot** [🔗](#)  
Developed a **scalable Discord bot** using **Node.js and Discord.js**, automating **server management** tasks. Implemented **Slash Commands** for features like calculations, jokes, quotes, and data retrieval. **Hosted on Azure** for high availability, with **modular code** supporting **100+ active users per server** and easy feature expansion.
- **Snaplink** [🔗](#)  
Built a **URL shortener** using **Next.js** with a responsive design powered by **Tailwind CSS** for a smooth user experience. **Deployed on Vercel** for scalability, handling upto **500 requests/day**. Developed a **MongoDB** backend for fast, reliable link storage and retrieval. Created a seamless **full-stack** integration, allowing **real-time** URL management.
- **Desktop Assistant** [🔗](#)  
Created a **text-to-speech** and **speech-to-text** assistant with **Python** and **pyttsx3** for interactive voice responses. Enhanced functionality by adding **mini-games and web browsing capabilities**, enriching user interaction. Integrated **speech recognition** to allow for hands-free, voice-activated commands. Optimized for offline use, providing core functionalities without internet access.

## CERTIFICATIONS AND ACHIEVEMENTS

- Harvard's CS50 certification for Introduction to databases using SQL. (2024)
- IIT Bombay's Spoken Tutorial in Advanced C++. (2024)
- Achieved a rank of Newbie on Codeforces and 2-star rating on Codechef.

## EXTRA CURRICULAR ACTIVITIES

- GDG Campus' Competitive Programming Lead (2024-25)
- FOSS United Nashik Community's Core Team Member (2024-25)
- Technical Advisory Subhead for Students Association of Computer Engineering (SAC) (2024-25)