

# Ayush Singh

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## EDUCATION

<b>B.E. in Computer Engineering</b> , Vasantdada Patil Prathisthan College Of Engineering	Aug'21-May'25 <b>Mumbai.</b>
<b>HSC (12th)</b> , Pace Junior Science College	85.6%   May 2021 <b>Navi Mumbai.</b>
<b>SSC (10th)</b> , Carmel Convent School	78 %   March 2019 <b>Khopoli.</b>

## PROJECTS

[Design-it.live](#) | [Github](#)

### DESIGN-IT: Collaborative Platform for Designers

- Developed a full-stack platform for Designers using React.js and Node.js/Express, serving **20+ RESTful API** endpoints with **JWT authentication**. Implemented the **Like/Unlike feature**, and a **real-time messaging system**.
- Built scalable backend architecture with MongoDB database featuring **6 optimized collections**, with **complex MongoDB aggregation pipelines** for like counting, user statistics, and filtering, and integrated **Cloudinary API** for secure file uploads with automatic image optimization and CDN delivery. Implemented compound **indexes** (sender-receiver-createdAt, receiver-isRead) for efficient message queries.
- Deployed production application on Digitalocean Droplets using **Nginx reverse proxy**, PM2 process management for zero-downtime restarts, **SSL/TLS encryption**, and MongoDB Atlas cloud database.
- Implemented advanced frontend features, including responsive design across all devices, real-time like/unlike functionality with optimistic UI updates, **dynamic filtering system with URL synchronization**
- Use [Email-DemoUser@gmail.com](#) and Password – DemoUser123 at the time of Login to see all functionalities.

### Blog-App

[Live](#) | [Github](#)

- Built a blogging platform that allows users to sign up, log in, and securely manage their accounts.
- Authenticated users can create, edit, and delete blog posts using a rich text editor powered by TinyMCE, supporting images and advanced formatting.
- Used Appwrite as backend for Authentication, database, and file storage services, ensuring data security and scalability.
- State management is handled efficiently with Redux, providing a seamless user experience.
- Tech stack: ReactJS, Tailwind CSS, Appwrite (backend as a service)

### Notes-App

[Live](#) | [Github](#)

- Built a feature-rich Notes App, where users can Pin/Unpin, Archive, and Delete their notes easily.
- Design an interactive UI that changes with every user action.
- Utilized local Storage to persist user data across sessions, ensuring notes remain intact even after page refresh.
- Tech stack: JavaScript, TailwindCSS.

## SKILLS

**Programming Languages :** Javascript, Html, CSS, SQL.

**Frameworks and Libraries :** React.js, Redux, TailwindCSS, Node.js , Express.js, Restful API.

**Databases :** MySQL, MongoDB (Mongoose ODM), MongoDB Aggregation Pipeline, PostgreSQL.

**Cloud and Container :** AWS , Cloudinary , Docker , Digitalocean.

**Tools and others :** Git, Github, Vercel, Redis, JWT, Appwrite , Postman.

**Core Subjects :** OOPS , Computer network , DBMS.

## EXPERIENCE

### Web Developer Trainee

May'24 — Jul '24

IBM (Skills Build)

- Attended Development Programs to gain Knowledge about industry-standard technologies and boost skill set.
- Followed best practices for Software Development.
- Collaborated with a team to design and build a responsive website from scratch.

## CERTIFICATIONS

[JavaScript](#), Geek for Geeks May '25

[AWS](#), Geek for Geeks Jun '25