Pavan Agulla

☑ Pavanagulla19@gmail.com

८ +91 9603032125 **ℰ** pavanagulla.netlify.app

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Pavanagula-19

Projects

Presento - Notes Application

Technologies Used: MERN Stack, JWT, TypeScript, Tailwind

- Developed a secure full-stack note-taking platform, increasing user retention by 40%.
- Implemented JWT-based authentication for 500+ active users, reducing unauthorized attempts by 30%.
- Enhanced MongoDB queries and indexing, achieving 99.9% uptime and reducing query times by 50%.
- Incorporated real-time synchronization of notes across devices, reducing sync time from 1.2s to 300ms.
- Designed a fully responsive UI with Tailwind CSS, leading to a 25% increase in mobile user engagement.

Zint - Real-time Music Sharing

Technologies Used: React Native, WebSockets, Node.js, MongoDB

- Designed a real-time music app using WebSockets, reducing playback sync delay from 500ms to 50ms.
- Built a cross-platform UI using the Expo framework, increasing user engagement by 35%.
- Improved API performance, decreasing latency from 700ms to 200ms.
- Implemented a queue system with real-time updates, enabling 5,000+ song additions per day.

Social Media Platform

Technologies Used: MERN Stack, WebSockets, JWT, Caching

- Scalable platform supporting 3,000+ concurrent users with real-time messaging.
- Achieved 40% faster load times (3.0s \rightarrow 1.8s) through lazy loading and refined API responses.
- Integrated caching (Redis) and MongoDB indexing, accelerating API response time from 500ms to 180ms.
- Developed an activity feed dynamically updating, leading to a 60% increase in daily active users (DAU).

Achievements

NASSCOM Certified (NSQF Level 5)

- Ranked in the top 10% of the cohort with a score of 88.
- Diagnosed and resolved a critical downtime issue within 2 hours, showcasing strong problem-solving skills.
- Contributed to open-source MERN stack projects, receiving recognition from community maintainers.

Hackathon Finalist

- Placed in the top 5 out of 200+ in a competitive hackathon.
- Led a team to develop an innovative solution with strong technical complexity.

Technical Skills

Programming: JavaScript, TypeScript, C++

Frameworks: Next.js, React Native, Tailwind CSS

Backend: Node.js, Express.js, WebSockets

Cloud & DevOps: AWS, Docker, Kubernetes

Frontend: React.js, Redux, Next.js, React Native

Databases: MongoDB, PostgreSQL, Redis, Firebase

Version Control: Git, GitHub, GitLab, Bitbucket

Tools: GraphQL, Swagger, Nginx, Postman,

Data Structures: Trees, Graphs, Hash Tables, Dynamic Programming

Prometheus

Education

Sphoorthy Engineering College, Hyderabad, Telangana (2017 - 2021)

B.Tech. in Computer Science and Engineering (Top 10%)

Relevant Courses:

OS, Data Structures, Algorithms, Networking, Databases, Software Engineering, Web Development