

Vishal Panchal

Full stack Software Development Engineer

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🌐 [LinkedIn](#)

🐙 [GitHub](#)

🔗 [LeetCode](#)

📁 [Portfolio](#)

Technical Skills

Languages: C++, JavaScript, HTML/CSS, Typescript, SQL

Frameworks/Libraries: React.js, Redux.js, NextJS, websockets, Prisma, Tailwind, Material-UI, shadcn UI

Databases: MySQL, MongoDB, GraphQL, Redis, PostgreSQL

Dev/Deployment: Docker, AWS(S3, EC2, ECS, ECR), Postman, Git, Github, Vercel, Netlify, Figma, Linux

Experience

Open Access Technology India

Aug 2022 - July 2023

Associate Software Developer

Remote

- Led the development of a dynamic user interface using **React.js**, **TypeScript** and **Extended JavaScript** significantly improving user experience and interface responsiveness.
- Architected and implemented displays from the ground up with **JavaScript** and developed robust back-end services using **Node.js** and **C#**, interfacing with a **SQL** database to manage complex data workflows.
- Enhanced SQL query performance by **20%** through the application of non-clustered indexing techniques, resulting in faster data retrieval and processing times.
- Achieved a **15%** reduction in development costs by optimizing resource usage and employing efficient coding practices with React.js, TypeScript, and Node.js, leading to faster and more maintainable code.

Projects

Vercel | 🌐

[April 2024 - present]

- Developed using **Node.js**, **JavaScript**, **TypeScript**, **S3**, **Docker**, **ECS**, **Kafka**, **PostgreSQL**, and **Next.js**, ensuring a robust and scalable application.
- Utilized **ECR** for container image management, ensuring scalable deployment and efficient resource utilization.
- Employed **AWS S3** for build storage, enhancing reliability and utilized **ECS** for dynamic container spin-up, ensuring efficient resource allocation and scalability.
- Created container images with **Docker**, deployed them to Amazon ECR, and streamed all logs to **ClickHouse** using **Kafka**, improving log management and analysis.
- Integrated Kafka and ClickHouse for real-time **log streaming**, reducing logging costs by **20%** and improving deployment speed by **25%**. This also enhanced real-time monitoring and debugging capabilities.

Twitter | Project Link | 🌐

[April 2024 - May 2024]

- Created a Twitter using **Next.js** with user authentication, tweet posting, a following/follower system, real-time updates, and a user recommendation system.
- Utilized **PostgreSQL** as database and **GraphQL** to fetch necessary data, enhance application scalability & performance.
- Integrated **Redis** for caching expensive queries like user recommendations, improving **speed** by **30%** and reducing database **load** by **40%**.
- Deployed on **EC2** with a **load balancer** for high availability and scalability, enhancing security with CloudFront for secure connections and data integrity.
- Implemented **rate limiting** on tweets to prevent unnecessary strain on the database, reducing potential costs by **15%** and enhancing application performance.

Real-Time Messenger | Project Link | 🌐

[Aug 2023 - Nov 2023]

- Developed a responsive messaging app with **Next.js**, **Tailwind**, and **NextAuth** for authentication, using **MongoDB** for data storage to ensure flexibility and scalability.
- Utilized **socket.io** for real-time messaging and **Cloudinary** for efficient image uploads and content delivery.
- Implemented features including file sharing, group chat functionality, and chat room management, enhancing user interaction and collaboration.
- Conducted efficient **CRUD** operations for seamless data management, ensuring robust functionality and scalability, reducing load times by **20%**.

Education and Certifications

MCA — Computer Application

TIMT college Yamunanagar (7.5 CGPA)

Certificate — Data structure and Algorithm

Coding Ninjas — [Link](#)

Aug 2020 - Jul 2022

Yamunanagar (Haryana), India

May 2023 - Sept 2023