Vishal Panchal

Front-end | Back-end | Software Development Engineer | Freelancer

(+91)-7400118211 vishal65.p@gmail.com 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, CI/CD, GitHub Actions, AWS(S3, EC2, ECS, ECR), Postman, Git, Github, Vercel, Netlify, Linux

Education and Certifications

MCA — Computer Application **Aug 2020 - Jul 2022**
*TIMT college Yamunanagar (**7.5 CGPA**)* *Yamunanagar (Haryana), India*

Certificate — Full-Stack Development **Nov 2022 - June 2024**
By- CrioDo *Project based learning (Remote)*

Experience

Freelancer **Aug 2023 - Current 2024**
Self employed *Remote*

- Architected and deployed a microservices based projects for clients with **Node.js**, **TypeScript**, and **Next.js**, leveraging **Docker**, AWS services, and **Kafka / Redis** to enhancing scalability and system maintainability.

Open Access Technology India **Aug 2022 - July 2023**
Associate Software Developer *Remote*

- Developed and implemented a **microservices-based** architecture using Node.js, TypeScript, and Express, reducing system complexity and improving scalability, resulting in a more maintainable and efficient system.
- Designed l**ow-level architectures** for both **front-end**(React, Redux) and **back-end** (Node.js, PostgreSQL) components, leading to a robust and scalable application.
- Enhanced SQL query performance by **20%** and optimized resource usage, achieving a **15%** reduction in development costs and faster data retrieval, which improved overall system efficiency and user experience.

Projects

Project Builder | Demo | **[April 2024 - June 2024]**

- 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. **Polling** logs from clickHouse.
- Integrated Kafka and ClickHouse for real-time **log streaming**, reducing logging costs by **20%** and improving deployment speed by **25%**. Implemented **CI-CD** using **GitHub actions** which trigger auto deploy on commit.

Twitter | Project Link | **[April 2024 - May 2024]**

- Created a Twitter-like application using **Next.js** with user authentication, tweet posting, a following/follower system, real-time updates, and a user recommendation system with Server-side rendering.
- 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.

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%**.