VIPUL SINGH

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Codeforces

ABOUT ME

I am a B.Tech Computer Science student skilled in full-stack development, specializing in ReactJS, NodeJS, and scalable systems. With experience at Sarvh and Paperdaz, he excels in optimizing performance and delivering innovative tech solutions.

SKILLS

Languages

| C/C++ | GO | JavaScript | SDL | Solidity | TypeScript |
| SQL |

Web Development

MaterialUI	NextJS	Jest	Bootstrap	ReactJS
GraphQl	RestAPI	NodeJS	ExpressJS
Firestore Database	MySQL	DynamoDB	PostgreSQL
MongoDB

CERTIFICATION

- **Completed courses on "Image and Video Processing" and Generative Adversarial Networks (GANs) including building and optimizing models**
- **Developed proficiency in applying machine learning techniques for image processing tasks, potentially applicable to healthcare or entertainment industries.**
- **Demonstrated understanding of ethical considerations in AI development through coursework on AI, Empathy Ethics.**
- **Gained foundational knowledge in network communication protocols, complementing my expertise in machine learning**

ACHIEVEMENTS

- **Worked as a campus ambassador for an international NGO NEER foundation profile.**

POSITIONS OF RESPONSIBILITY

- **Volunteered in various fashion and tech events organised by Panache**
- **Organised Entrepreneurial Summit Bennovate**

EXPERIENCE

Full Stack Developer
Paperdaz ↗
📅 Oct 2023 - Jan 2024

- Engineered a **Vue.js** web application with **FeathersJS** API, serving over **1,000** users and businesses as a PWA.
- Deployed on **DigitalOcean**, enhancing user engagement by **25%** and reducing server costs by **15%**.
- Optimized **DNS** with **Cloudflare** for **99.9%** uptime, and processed **10,000+** monthly transactions via **Stripe**.

Full Stack Developer
Sarvh ↗
📅 Apr 2024 - Present

- Spearheaded the creation of key full-stack features and **scalable APIs** for a social e-commerce platform.
- Achieved a **40%** increase in content accessibility and relevancy, while reducing fake content issues by **25%**.
- Utilized **AWS S3** for media file requests, reducing **bottlenecks** and enhancing **response times**. Managed **1000+** concurrent users with consistent performance.
- Processed **500 transactions** daily for seamless user and business transactions, maintaining **99.9%** uptime for global platform accessibility.

PROJECTS

Remote Code Executor
Node.js, Javascript, Docker, Bash scripting, Nginx, Github Actions

- Created a **Docker sandbox** to run code snippets in C++, Python, and JavaScript (extensible to other languages).
- Implemented **Certbot** and **Let's Encrypt** for **HTTPS** deployment with **automated TLS** certificate renewal, reducing manual effort by **90%**.
- Set up a GitHub Actions **CI/CD pipeline** for automated deployments, reducing deployment time by **70%**.

Video Social
React, Redux, WebRTC, Express, Stripe, SocketIO

- Developed a **real-time P2P** video call platform with React, Redux, WebRTC, Express, Stripe, and Socket.IO, serving as a **PWA**.
- Implemented a suggestion engine, increasing friend connections by **30%**, and a role-based call credit system, boosting call engagement by **25%**.
- Integrated capabilities like failed payment resumption, reducing payment issues by **20%**.