Vivek Kumar

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Experience

System Engineer   *Mumbai*
*Tata Consultancy Services (Client: **National Stock Exchange**)*   *Oct 2023 – Present*

- Working on trading applications at the **National Stock Exchange** client office for backend processing. Worked on various artifacts as per the requirements of the client in C++, SMFS.
- Developed several utilities and **shell scripts from scratch** and also fixed various critical bugs as per the Business requirements by client.
- Worked with **OFS Website team** to maintain and enhance the Offer-for-sale website.
- Monitoring **Log Analysis Report for debugging** the errors encountered in UATs and Mocks.
- Set up RHEL-8 market server , **benchmarked order packet flow** to obtain the latency.
- **Automated config generation** in commodity segment for both production and dev environments.
- Troubleshooting and solving issues raised in UAT and PROD , also providing **Root cause Analysis (RCA)** of the issue and justifying same to the client. Solved performance related issues at application and server end.
- Interacting with clients and helping them by solving issues in **minimum time.**

Education

Kurukshetra University   *2019 – 2023*
Bachelor of Technology in Computer Science and Engineering

- CGPA: 8.5/10

Projects

CryptoExchange

- Built a real-time cryptocurrency exchange backend with **WebSocket feeds, Redis Pub/Sub event management**, and a simulated market maker for dynamic order book liquidity.
- Structured a modular backend with clean separation of concerns (**order matching engine, feed server**, pub/sub broker) to ensure high extensibility and scalability.
- Tools Used: Next.js , Node.js , Sockets, Redis , Postgresql, Docker, Tailwindcss , TypeScript , PrismaORM

DroneSurvey

- Built a full-stack Drone Survey Management System (React, Node.js, PostgreSQL) with mission planning, drone fleet management, **real-time monitoring, and dynamic reporting**.
- Integrated interactive map-based planning (**Leaflet**) and visual analytics (**Chart.js**) for operational transparency and mission efficiency.
- Tools Used: React.js , Node.js , Leaflet , Chart.js ,PostgreSql

Technologies

Languages: C, C++, Java, JavaScript, ShellScripting

Technologies: React.js ,Next.js ,Node.js, Prisma

Databases: SQL, MongoDB, SMFS

Others: Docker, Redis, Linux, Git, Kafka, Jenkins, SDLC, Socket Programming

Achievements

Achieved **star team award** , for completing business requirements in tight deadlines.

3rd Place in All-India Tata Inter-companies Badminton Tournament.