Sanskar Singh

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Summary

Full Stack Developer | Software Engineer | Backend & Data Systems
Software Developer with **2+ years of combined experience** in backend development, database management, and scalable system design. Proficient in **Python, Java, C++, Node.js, and SQL/NoSQL databases**, with expertise in building high-performance backend applications, designing efficient schemas, and optimizing queries. Skilled in **API design, authentication, caching mechanisms (Redis, Memcached)**, and implementing secure, maintainable architectures. Strong foundation in **data structures, algorithms, and problem-solving**, with experience deploying solutions on **AWS and cloud platforms**. Adept at working in Agile environments and passionate about creating efficient, scalable, and user-focused software systems.

Technical Skills

Programming Languages: Python, Java, C++, JavaScript (ES6)
Backend Development: Node.js, Express.js, Django, Flask
Frontend Technologies: React.js, HTML5, CSS3
Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB)
Caching & Optimization: Redis, Memcached
System Design & APIs: RESTful API design, Authentication & Authorization, Backend Architecture
Cloud & DevOps: AWS (EC2, S3, Redshift), Google Cloud (BigQuery), Docker, Git, CI/CD Pipelines
Data Structures & Algorithms: Strong foundation in problem-solving, complexity analysis, and scalable solutions
Tools & Frameworks: VS Code, Jupyter Notebook, Postman, Linux

Projects

Stock Price Prediction Tool | [Live Link] - ML-powered web app to predict next-day stock prices with Random Forest & XGBoost, integrating real-time news sentiment (NLP). Built with Python (scikit-learn, TextBlob), Streamlit, Plotly and deployed on Streamlit Cloud.
● Designed end-to-end pipeline: live data (Yahoo Finance), sentiment scoring, prediction with confidence intervals. ● Delivered interactive dashboards with 95% CI and explainable AI metrics (MAE, RMSE).

Ball Stats – Live Football Dashboard | [Live Link] - Dynamic football analytics platform built with Flask + SQLAlchemy (backend) and TailwindCSS (frontend), integrating Football Data API & NewsAPI.
● Features: live match schedule, league standings, real-time news feed, user authentication (Flask-Login). ● Deployed on Render with environment-secured configs; optimized frontend load time <200ms.

Logistics Dashboard (Real-Time Fleet Analytics) | [GitHub] - End-to-end real-time fleet monitoring dashboard with simulated IoT/Kafka data streams, backend API, and sleek modern frontend.
● Backend: Flask REST API + Spark simulation for big data aggregation. ● Frontend: Glassmorphism UI, async JS visualizations for KPIs, alerts, and live maps. ● Showcases system design, backend architecture, and streaming data handling for logistics ops.
For more projects, please check the full **[Portfolio]**.

Experience

Software Engineer – Bhawani Transport *(May 2024 – August 2025) {1+ Year}*
● Designed and developed a **Fleet Analytics System** to monitor 300+ vehicles, integrating IoT sensor data, driver logs, and GPS routing into a **centralized platform**. ● Built and deployed **RESTful APIs** in Python (FastAPI) to enable real-time data ingestion from IoT devices and external vendors. ● Engineered **ETL pipelines** (handling 100K+ daily records) with Python & SQL, improving data reliability and reducing reporting latency by 40%. ● Migrated legacy fleet tracking workflows into a **scalable cloud architecture** (AWS Redshift, S3, Lambda), cutting manual interventions by 25%. ● Developed **role-based dashboards** (React + Power BI integration) for leadership to track fleet utilization, dispatch efficiency, and SLA compliance. ● Implemented **predictive analytics modules** using regression & time-series forecasting to flag potential delays, improving operational planning accuracy. ● Collaborated with cross-functional teams to design a **modular backend system**, achieving 99.9% uptime and seamless integration with logistics workflows.

Internships

Frontend Developer Intern – Finance & Procurement | Lakhdataar Udyog *(Dec 2023 – Apr 2024) {4 Months}*
- Built responsive e-commerce UI in **React.js + Tailwind**, integrated APIs, and optimized user workflows for smoother vendor & customer experiences.

Data Analyst Intern – Fleet Analytics | Ready Wheels *(Mar 2023 – May 2023) {3 Months}*
- Built Python scripts to process **IoT sensor data** and created fleet performance monitoring modules.

Data Associate Intern – Dispatch Ops | Black Diamond Motors *(Mar 2022 – May 2022) {3 Months}*
- Automated dispatch & fuel tracking dashboards with **SQL + Power BI**, reducing manual work by 80%.

Education

● **Bachelor of Statistics** – St. Xavier's College, Ranchi *[August 2021 – June 2024] {7 CGPA}*
● **Class XII (ISC) Science Major** – Rajendra Vidyalaya *[April 2020 – March 2021] {89 Aggregate}*