Mohit Kumar Singh

Backend Engineer

juicetheory.io / github.com/mohit-k-s

Backend engineer focused on PostgreSQL performance, Kafka, and production reliability. I diagnose failures across services and data systems, then turn what I learn into fixes that hold up in production.

EXPERIENCE

Invenco by GVR

Nov 2023 - Present

Backend Engineer

- Took point during client-facing outages, tracing failures through PostgreSQL and Kafka and driving recovery.
- Traced rising PostgreSQL load to two expensive query paths. Shipped a fix that reduced p95 CPU-attributed database load by 58% across matched 45-hour windows.
- Shipped AWS-backed platform features and built internal replication tooling and reusable backend packages.

Hubilo Technologies

Jun 2022 - Nov 2023

Backend Engineer

- Built and maintained customer-facing event-platform APIs and improved MongoDB schemas and queries for common access patterns.
- Owned backend features from data modeling and API design through release and production maintenance.

SELECTED PROJECT

Periscope

Built an Amazon RDS diagnostics tool that surfaces second-by-second workload spikes, highlights queries driving database load, and retains snapshots for selected instances.

TECHNICAL SKILLS

Languages and frameworks	TypeScript, JavaScript, Python, Node.js, Flask
Data and infrastructure	PostgreSQL, Kafka, Redis, MongoDB, MySQL, Elasticsearch, Debezium, AWS
Design	API design, microservices, SQL and NoSQL data modeling

EDUCATION

National Institute of Technology, Delhi

Aug 2018 - May 2022

B.Tech. in Electrical and Electronics Engineering