

NITIN BANSAL

Principal Engineer – Distributed Systems

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12+ years building and running large-scale distributed systems, mostly around high-volume data. I've led projects end to end, worked closely with engineers at all levels, and built platforms that reliably handle billions of events every day.

SKILLS

Languages Java, JavaScript / Node.js, Python

Databases BigQuery, Cassandra, MySQL, PostgreSQL, Redis, Elasticsearch, MongoDB

Messaging Kafka

InfraDevOps Kubernetes, Docker, AWS, GCP, CI/CD, GitHub Actions, GitLab, ArgoCD

EXPERIENCE

WebEngage | Mumbai, India

Apr 2022 – Nov 2024

Principal Software Engineer

Full-time

Java Kafka BigQuery Redis Kubernetes AWS GCP

- Led development of multiple projects from ideation to production in close collaboration with Product, QA, CTO, and DevOps.
- Managed and mentored teams of 3–12 engineers with experience levels ranging from fresh graduates to senior engineers.
- Architected and delivered dozens of production systems from scratch, several handling billions of events daily operating fully autonomously
- Contributed hands-on to day-to-day coding, maintenance, and infrastructure upgrades across distributed systems

WebEngage | Mumbai, India

Mar 2013 – Apr 2022

Senior Software Engineer

Full-time

Java Kafka BigQuery Cassandra MongoDB Redis

- 💡 Built and scaled systems processing 5B+ events per day with high reliability.
- 💡 Designed update-heavy user profile pipelines handling 800M+ updates per day.
- Designed and built end-to-end event ingestion pipelines from Kafka to BigQuery.
- Implemented real-time statistics processing using Redis for aggregated metrics.
- Built conversion attribution and reporting services delivering 800+ reports daily.
- Developed Cassandra-based latest-event services consumed by personalization engines.
- Led PoC and initial migration pipelines for moving a 100+ TB BigQuery warehouse to StarRocks.
- Contributed to frontend, PHP, and Android initiatives as needed.

Apster Technologies Pvt. Ltd. | Ahmedabad, India

Sep 2011 – Aug 2012

Co-Founder

- Bootstrapped and built two products from scratch.
- Developed a remote-managed ad management platform for large-screen outdoor advertising.
- Built a wireless tablet-based restaurant ordering and billing system.

Longcheer Technology India | Noida, India

Aug 2010 – Jul 2011

Software Engineer (MMI)

- Customized and developed mobile device features for multiple brands on the MTK platform.
- Worked on Plutommi and Venus MMI frameworks.

Emerson | Pune, India

Feb 2009 – Mar 2010

Embedded Software Developer

- Developed measurement flows, data storage, and UART communication for gas chromatography systems on ARM Linux.
- Designed ATmega-based sensor board firmware supporting calibration and display interfaces.

PROJECTS

DB Stress Bench

[Source Code](#) ↗

Customizable database load-testing framework with real-time in-browser statistics.

Blueprint

[Source Code](#) ↗

Zero-dependency Java 8 templating engine with Nunjucks-compatible syntax.

Verdict & Verdict-Java

[Source Code](#) ↗

Condition evaluation engines using MongoDB-like query syntax for JavaScript and Java.

Guardian

[Source Code](#) ↗

Java library providing retries, circuit breakers, and fallback strategies.

Mock OpenAI Server

[Source Code](#) ↗

Node.js Express server mimicking OpenAI APIs for local testing.

ZenQuery.app

[Website](#) ↗

Electron desktop application enabling plain-English querying of CSV, JSON, Excel, and Parquet files.

EDUCATION

CDAC Pune

2008 - 2009

Post Graduate Diploma in Embedded Systems

MJPRU Bareilly

2004 - 2008

B.Tech. in Electrical, Electronics & Communications Engineering