

Nitin Bansal

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12+ years of experience designing and building distributed, data-intensive systems at scale, leading complex technical initiatives end-to-end, mentoring engineers, and driving cross-functional collaboration to deliver high-performance, reliable software systems.

WORK EXPERIENCE

WebEngage — Principal Software Engineer

Apr 2022 – Nov 2024 • Mumbai, India

- Led development of multiple projects from ideation to launch while collaborating cross-functionally with PM, QA, CTO, and Devops.
- Implemented CI/CD pipelines (in collaboration with devops), cutting release cycle time and improving time-to-market.
- Performed an in-depth PoC (and initial pipelines) to migrate our core BigQuery Warehouse (100+TB) to self-hosted StarRocks.
- Mentored junior engineers (and debugged code with them) on best practices in code, docs, and architectural thinking.
- Continuously delivered enhancements and maintained existing systems while handling parallel projects and team coordination.

WebEngage — Senior Software Engineer

Mar 2013 – Apr 2022 • Mumbai, India

- Built and scaled multiple data-intensive services processing billions of events daily.
 - End-to-end events ingestion pipeline from Kafka to BigQuery (5B+ events a day)
 - A similar pipeline for update-heavy user profiles in BigQuery (800M+ updates a day)
 - Real-time stats processing 5B+ events and 800M+ profile updates every day and providing aggregated stats using small redis cluster
 - Conversion attribution service using MongoDB working on similar scale
 - Reporting service delivering more than 800 reports everyday with total record count upwards of a few 100 million
 - Latest-event-service using Cassandra, for usage by the personalization engine
 - Delivered several other high-scale backend services, supporting key product features and system reliability.
- Contributed to frontend, a bit of PHP development, & Android projects for cross-functional initiatives.

Apster Technologies Pvt. Ltd. — Co-Founder

Sep 2011 – Aug 2012 • Ahmedabad, India

- Bootstrapped two products: fully remote, in-street ad management software and a 100% wireless tablet-based restaurant ordering & billing system.

Longcheer Technology India — Software Engineer (MMI)

Aug 2010 – Jul 2011 • Noida, India

- Customized and developed features for Chinese and Indian mobile brands on MTK platform (plutommi & venus mmi).

Emerson — Embedded Software Developer

Feb 2009 – Mar 2010 • Pune, India

- Developed measurement flows, data storage & UART comms for gas-chromatography system on ARM Linux.
- Designed sensor-board firmware (ATMega) supporting on-field calibration & display interface.

SKILLS

Languages — Java, Node.js/JavaScript, Python.

Databases — BigQuery, Cassandra, MySQL, Redis, Elasticsearch, MongoDB.

Messaging — Kafka.

Infra — Kubernetes, Docker, AWS, GCP, CI/CD (GitLab, GitHub, ArgoCD).

OPEN SOURCE PROJECTS

DB Stress Bench — Customizable DB load-testing with real-time in-browser stats. Supports MySQL, Postgres, SQLite, DuckDB, Cassandra.

Blueprint — Zero-dependency Java-8 templating engine with 100% Nunjucks-compatible syntax.

Verdict & Verdict-Java — Evaluate conditions against data using MongoDB-like syntax (JavaScript & Java).

Guardian — Java library offering retries, circuit breakers, and fallback strategies.

Mock OpenAI Server — NodeJS Express server that faithfully mimics OpenAI endpoints for cost-effective testing.

See more at github.com/freakynit.

CURRENTLY BUILDING

ZenQuery.app RELEASED — A fully local desktop app (Electron) that gives instant answers on CSV, JSON, Excel & Parquet data files using plain English.

Product Analytics SaaS WIP — Track events and user profiles, build funnels, cohorts, and journeys, analyze retention & conversion rates, generate visual reports, and more.

AI Journaling App PLANNED — Text or voice entries with auto-generated topics & insights, plus natural-language search and more.

EDUCATION

Post Graduate Diploma in Embedded Systems, CDAC Pune — 2008-2009

B.Tech. in Electrical, Electronics & Communications Engineering, MJPRU Bareilly — 2004-2008