

# Utkarsh Bhatt

## Principal Engineer

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### Summary

**Principal Engineer** with 7+ years of experience designing and scaling **distributed, event-driven systems** in **Node.js**. Known for leading re-architecture initiatives, modernizing legacy stacks, and delivering **low-latency**, fault-tolerant platforms powering **logistics, workforce automation**, and **real-time delivery ecosystems**. Proven ability to align engineering execution with business impact and system reliability goals. Hands-on with distributed tracing, observability, and asynchronous communication patterns.

### Experience

#### Rebel Foods Pvt. Ltd.

Principal Engineer

Mumbai, MH, India | Apr 2025 – Present

- **Architected and led development** of the **Workforce Management System (WFM)** — a full-stack (Node.js backend, React.js frontend in Webview, Zing HRMS APIs) application automating attendance tracking, payroll visibility, and workflow management for ~2500 employees, greatly reducing manual Employee & HR queries.
- Designed and implemented a **real-time payroll data pipeline** integrating internal Excel-based reports with **Google Sheets APIs**, enabling live salary data validation and visualization across HR and finance dashboards.
- **Modernized the legacy Material Management System (MMS)** — upgraded Node.js (v8 → v22), refactored core services, and introduced **Docker multi-stage builds**, reducing build size and deployment time by half, **unblocking QAs** and improving CD speed across **dev and QA environments**.

Lead Engineer (SDE-III)

Gurgaon, HR, India | Jul 2022 – Mar 2025

- **Led a backend team of 6 engineers** to overhaul the delivery platform handling **10,000+ active riders daily** across ~350 Rebel Foods' cloud kitchens in India.
- **Re-architected and optimized** the rider allocation engine, reducing assignment delay from 5+ minutes to **under 2 minutes**, improving throughput and delivery SLA compliance during peak hours.
- Transitioned critical path APIs from REST to **Kafka-based asynchronous messaging**, reducing P95 latencies during surge loads.
- Architected and implemented real-time **surge pricing (ribbon-ratio)** logic, enabling dynamic rider incentives tied to regional (city) supply-demand metrics.
- Introduced **Datadog dashboards and SLO monitoring** — giving product, engineering, and ops real-time visibility into API health and incident trends.
- Partnered with DevOps to build a **disaster recovery environment** for Rebel's Order Fulfilment cluster — replicated **tier-1 microservices** from **us-west-2 (Oregon)** to **ap-south-1 (Mumbai)** to ensure business continuity during regional outages.

Senior Software Engineer (SDE-II)

Mumbai/Gurgaon, India | Feb 2020 – Jun 2022

- Built RESTful backend services for the in-house **Trax delivery partner app**, covering real-time location tracking, route assignment, and delivery lifecycle state machines.
- Built **internal React/Redux dashboards** for fleet teams to manage escalations, assign backups, and override delivery states during critical order fulfilment windows.
- **Eliminated manual delivery partner onboarding** by designing a secure, self-serve **KYC workflow** (PAN, Aadhaar, license, etc.), enabling full automation of the registration process with audits.
- Led the design and rollout of a **pluggable 3PL integration layer** — enabling rapid onboarding of 3PL partners like Dunzo, Rapido, and Careembox via modular microservices.
- Built **custom analytics dashboards in Metabase** using delivery and 3PL data — enabling ops teams to triage **SLA breaches** and **partner performance** in real-time.

#### Growthfile Analytics Pvt. Ltd.

Software Engineer

New Delhi, India | Jan 2018 – Feb 2020

- Built backend services using **Node.js and Firebase Cloud Functions** — including authentication, dynamic task workflows, location-aware check-ins, and role-based access control.
- Owned **infrastructure setup** (IAM, service accounts, analytics pipelines, versioning) and supported internal customer operations.
- **First engineer** hired to take the platform from a prototype into a production-grade, multi-tenant **SaaS platform** used by **2000 field employees** across logistics and retail.
- **Designed REST APIs** consumed by web/mobile clients built in React — covering attendance, task lifecycle, and reporting.
- Built **resilient workflows** for field ops with **offline-first support**, local caching, and retry mechanisms to handle poor connectivity and network failures.
- Integrated **Cashfree APIs** for **automated payments** to users — including webhooks, retries, and audit logs.

## Education

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B.Tech — Computer Science & Engineering

UPTU, Greater Noida | 2013 – 2017

## Skills

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**Languages:** TypeScript, JavaScript

**Frameworks:** Node.js, ExpressJS, ReactJS, NextJS

**Messaging:** Kafka, SQS

**Databases:** MySQL, MongoDB (DocumentDB), Firestore

**Cloud & Infra:** AWS (EC2, S3, RDS, SES), GCP (Firestore, Functions, Auth), Cloudflare (Workers, DNS)

**Monitoring:** Datadog, ELK

**Architecture:** Microservices, Event-Driven, Serverless, Modular APIs

**Practices:** Agile (Scrum), TDD, CI/CD