

# Raj Mehroliya

Senior Backend Engineer

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## PROFESSIONAL SUMMARY

Backend engineer with nearly 3 years building and scaling multi-tenant mobility SaaS platforms on Node.js, MySQL, Redis, and AWS; promoted to SDE II within 16 months. Deep experience in distributed concurrency control, multi-region payment infrastructure (Stripe, Razorpay, Paystack, PawaPay, Peach Payments), and ride-lifecycle automation. Proven record of cutting infrastructure costs, improving reliability, and shipping architecture that scales across white-labeled client environments.

## TECHNICAL SKILLS

**Languages & Runtime:** Node.js, Express.js, JavaScript, Python

**Databases & Caching:** MySQL, MongoDB, Redis (Redis + Lua distributed locking)

**Cloud & Infrastructure:** AWS (EC2, S3, RDS), Firebase FCM, cron-based automation

**Payments & Architecture:** Stripe, Stripe Connect, Razorpay, Paystack, PawaPay, Peach Payments, Multi-tenant SaaS, RBAC, event logging, distributed systems

## PROFESSIONAL EXPERIENCE

**Togopool Pvt Ltd** — Gurugram, India

**Software Development Engineer II** (*Promoted*)

Jan 2026 – Present

- **Danger-Zone-Aware Routing (HERE Maps):** Integrated HERE Maps with Google Directions to validate each fastest-route polyline against geofenced danger zones; when a suggested route crossed a flagged zone, the engine automatically re-requested alternative polylines routing around all danger zones, ensuring safe recommendations without sacrificing travel efficiency.
- **Timezone-Aware Ride Scheduling:** Implemented coordinate-derived timezone propagation across ride request, engagement, and scheduled-ride pipelines, ensuring accurate scheduling and consistent lifecycle notifications across multi-region deployments.
- **Distributed Seat-Locking for Shuttle Passes:** Built a Redis-based distributed locking system (BookMyShow-style) for a subscription shuttle-pass feature reserving seats across 30-45 day windows configurable from the admin panel; used atomic seat hold-and-release to prevent overlapping bookings, with a graceful fallback that reallocates an alternate seat in rare contention edge cases instead of failing the entire booking and payment.

**Software Development Engineer I**

Sept 2023 – Dec 2025

- **Wallet & Payment Infrastructure:** Architected multi-tenant wallet system with Stripe and Razorpay supporting real-time reconciliation, pending-balance settlement, and white-labeled deployments; cut transaction inconsistencies by 20% and later extended the payment layer to Paystack, PawaPay, and Peach Payments for African-market coverage.
- **Cost Optimization via Smart Routing:** Built a route-computation pipeline with Distance Matrix API fallback routing and request deduplication, reducing third-party billing costs by 75% while improving route accuracy.
- **Role & Permission Architecture (RBAC):** Designed a database-driven RBAC system with dynamic module-level tab mapping, enabling tenant-specific permission isolation and secure extensibility for new modules.

**SnapSmart Pvt Ltd** — Mumbai, India

**Full Stack Developer Intern**

May 2023 – Aug 2023

- **Full Stack Development:** Built responsive React interfaces and scalable Python APIs, improving performance and reducing response latency by 30%.
- **AWS Cloud Deployment:** Deployed applications on AWS (EC2, S3, RDS), improving reliability and reducing downtime by 15% through infrastructure tuning.

## EDUCATION

**B.Tech** — Maulana Azad National Institute of Technology (MANIT), Bhopal

2018 – 2022

## ACHIEVEMENTS & LANGUAGES

**Achievements:** Employee of the Month x2 (April 2024, June 2025) for consistently exceeding performance targets and driving key team initiatives.

**Languages:** English (Native), Hindi (Native)