

# Pushpander Singh Tanwar

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## EDUCATION

- **Maharaja Agrasen Institute of Technology(GGSIPU)** Delhi, India  
*Bachelor of Technology ; GPA: 8.4* 2019 - 2023

## SKILLS SUMMARY

- **Languages:** C++, JavaScript, TypeScript, SQL, JAVA
- **Frameworks:** Node.js, Express.js, NestJS, Spring Boot
- **Databases:** PostgreSQL, MongoDB, Redis
- **Platforms:** AWS, GCP
- **Tools & Practices:** Kafka, RabbitMQ, Kubernetes, Docker, GIT, Elastic Search, Grafana, Loki, System Design (HLD/LLD), Data Structures & Algorithms

## EXPERIENCE

- **Alt Mobility** Delhi, India  
*Software Engineer(Full-time)* Feb 2024 - Present
  - Architected **event-driven inventory module** for in-house GMS using RabbitMQ for **bidirectional sync** with third-party IMS, implementing optimistic locking with **PostgreSQL** row versioning and **Strategy/Factory patterns** for **multi-tenant adapter orchestration**, **reducing operational cycle from 4 days to 1.5 days.**
  - Built real-time telemetry pipeline **processing 1M+ events/day** from 1,000+ EVs using **Node.js, RabbitMQ, and PostgreSQL**, **reducing data loss from 15% to less than 2%** by implementing retry mechanisms and dead letter queues.
  - Designed PCI-DSS compliant payment system **processing 2,500+ monthly transactions** via Easebuzz webhooks, **reducing payment failures from 12% to 3%** through automated reconciliation.
- **Prdo Technologies** Gurugram, India  
*Software Engineer(Full-time)* Apr 2023 - Jan 2024
  - Built **push notification system** using **Node.js, NestJS, and OneSignal**, enabling marketing team to send targeted campaigns to 10K+ users with 30% CTR improvement through segmentation.
  - Implemented **bidirectional data sync** between production database and Zoho CRM using **Kafka**, processing **50K+ records/day with exactly-once delivery semantics.**
  - Added **multi-currency support to payment flows** using Currency Beacon **API integration in Spring Boot**, enabling **expansion to 3 new international markets.**
- **Zapit.io** Remote  
*Backend Developer(Internship)* Mar 2023 - Apr 2023
  - Developed **RESTful APIs** for UPI liquidity provider dashboard using **Node.js, Express.js, and MongoDB**, supporting real-time transaction monitoring for 10+ financial partners.
  - Implemented **gRPC-based pub/sub system** for inter-service communication, reducing **event delivery latency by 60%** compared to HTTP-based approach.
- **Prdo Technologies** Gurugram, India  
*Backend Developer(Internship)* Dec 2022 - Feb 2023
  - Built **internal analytics dashboard APIs** using **NestJS and MongoDB**, integrating Zoho CRM data for sales team reporting.
  - **Improved API response times by 50%** through **Redis caching** layer with TTL-based invalidation strategy.
  - Created **image optimization pipeline** converting **S3-stored images to base64 with 70% compression**, reducing bandwidth costs.

## PROJECTS

- **Pitstop - Road trip planner for Indian highways:** Built and shipped a **vehicle-aware trip planner** that breaks long drives into smart checkpoints based on vehicle range and fuel level, solo build covering backend, frontend, design, and infra. Designed **hash-based route caching** (approx. 95 percent hit rate, approx INR 0.20 per cached trip) and a **3-layer cost defense** to keep Google Maps spend flat, plus a **PostGIS spatial query layer** filtering 1,300+ checkpoints within 5 km of any route polyline in sub-100ms. **(Apr 2026) (Live) (Github)**  
**Tech-stack:** NestJS · PostgreSQL+PostGIS · Redis · Next.js · Google Maps · Mapbox · Claude Design

## ACHIEVEMENTS

- Ranked 4888th globally in Google KickStart Round D 2022. (Link)
- Ranked 790th globally in CodeChef July Long one 2022. (Link)
- Solved 400+ data structures and algorithms problems across various coding platforms. (Link)
- Participated in Flipkart Grid 4.0-Software Development Challenge 2022. (Link)