

Aniruddha Chatterjee

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SUMMARY

Backend Software Engineer with 3 years of experience building scalable backend systems using Node.js/TypeScript, GraphQL, PostgreSQL, Neo4j, and AWS. Experienced in distributed systems, event-driven service orchestration, API authentication, caching, and performance optimization for production workloads serving 1M+ requests/day and processing 20M+ events/day.

SKILLS

Languages: TypeScript, JavaScript, Java, SQL

Backend: Node.js, GraphQL, REST APIs, Microservices, Distributed Systems, Event-Driven Architecture

Data & Performance: PostgreSQL, Neo4j, Caching, Session Management, Performance Optimization

Cloud/Infra: AWS (Lambda, EC2, S3), Jenkins, Linux, Bash

Frontend (Working Knowledge): React, Next.js

EXPERIENCE

Senior Software Engineer | Sabre India

January 2023 - Present, Bangalore, India

- Built and optimized **high-traffic GraphQL APIs** serving **1M+ requests/day**; reduced response latency by **8%** by improving resolver execution paths, batching downstream fetches, and optimizing orchestration across distributed services.
- Orchestrated **event-driven workflows** across multiple distributed microservices in Sabre's backend ecosystem, coordinating service-to-service interactions for booking and ancillary flows with a focus on reliability and backward compatibility.
- Built backend components for an **offer/order-based airline booking platform** in **Node.js/TypeScript**, including **authenticated APIs**, session-aware request flows, and **ALTCHA-based** anti-bot validation, reducing automated traffic by **29%**.
- Designed and shipped a **modular bag-tag printing microservice** with adapter-based support for multiple printer vendors and output formats, improving kiosk integration reliability across **3 airline partners**.
- Built an internal **API schema-compatibility layer** that adapted to upstream response changes using semantic field mapping, reducing production integration failures by **95%** and schema-related hotfixes by **60%**.
- Designed and deployed a **Neo4j-backed analytics pipeline** processing **20M+ booking events/day**, reducing cloud spend by **15%** through query optimization and infrastructure improvements.
- Improved backend throughput and responsiveness using **caching, session-aware optimizations, and parallelized multi-worker execution** for compute-heavy or latency-sensitive service paths.

Software Developer Intern | Quinence

January 2022 - September 2022, Singapore (Remote)

- Built **serverless backend services** in **Node.js** on **AWS Lambda** with **PostgreSQL** for customer-facing workflows.
- Improved deployment and runtime efficiency by introducing **Lambda Layers** and shared dependency packaging across common services.
- Automated AWS deployment workflows to support **zero-downtime releases** for production-facing features.

EDUCATION

M.S. Computer Science | The University of Texas at Austin (Expected 2027)

Bachelor of Technology in Computer Science and Engineering | SRM Institute of Science and Technology (2023)

SELECTED PUBLICATIONS

Evaluation of Machine Learning Algorithms for Predicting Cybersecurity Incidents | IEEE 2025

Ledger-based Electronic Voting System using a multi-tier security approach | IEEE 2023

Patent Recommendation Engine Using Graph Database | Springer 2022
