

YASH AGGARWAL

Senior Software Engineer | Distributed Systems & Full-Stack | yash.aggarwal.8618@gmail.com
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SUMMARY

Senior Software Engineer with 5+ years owning frontend architecture and backend platform systems for multi-tenant SaaS platforms on AWS. Specialized in zero-downtime UI migrations, system-level performance optimization, and event-driven architectures serving 50K+ DAUs.

EXPERIENCE

Senior Software Engineer — Compro Technologies, Delhi, India Sept 2024 – Present

- Led a zero-downtime migration from AngularJS microapps to a Nuxt 3 monorepo with a 6-engineer team by defining domain boundaries, shared API contracts, and an incremental rollout strategy.
- Scaled a multi-tenant SaaS platform to ~50K DAUs and ~10K concurrent users using tenant-scoped queues, rate limiting, and circuit breakers, reducing peak-hour error rates by ~65%.
- Reduced p95 read latency from ~2s to ~200ms by redesigning DynamoDB access patterns and eliminating hot partitions in high-traffic workloads.
- Improved frontend resilience and load times by decoupling SSR-critical APIs, adding edge caching, and optimizing hydration paths, achieving sub-second critical page loads under peak traffic.
- Designed event-driven ingestion pipelines (SNS → SQS → Lambda) processing ~100K events/hour and built APIs consumed by production frontend dashboards.
- Reduced AWS spend by ~33% via Lambda concurrency tuning, DynamoDB autoscaling optimization, and S3 lifecycle policies while maintaining SLOs.

Software Engineer — Infosys, Remote, US Sept 2023 – Sept 2024

- Owned frontend architecture, API contracts, and phased rollouts for admin, worker, and citizen-facing Next.js dashboards backed by Lambda workflows.
- Built a self-service troubleshooting chatbot combining deterministic flows and LLM-generated responses, deflecting ~40% of recurring support queries.
- Improved frontend performance and reliability by optimizing SSR/CSR boundaries, introducing route-level code splitting and CDN caching, reducing bundle size ~30% and improving FCP from 1.8s to 0.7s.

Software Engineer — Compro Technologies, Delhi, India Jul 2019 – Jul 2022

- Contributed to decomposing a monolithic platform into microservices and micro-frontends by extracting core services and introducing async, event-driven communication.
- Built an offline-first Electron application with encrypted local storage, custom sync services, and conflict-resolution logic.
- Owned a core micro-app serving 4K+ concurrent users, designing its frontend data models and backend APIs.
- Implemented role-based access control (RBAC) and content-validation pipelines to enforce secure publishing workflows.

SKILLS

- **Languages & Frameworks:** TypeScript, JavaScript, Python, React, Next.js, Vue.js, Nuxt 3, Angular, Node.js
- **DevOps & Cloud:** AWS, Docker, GitHub Actions, Jenkins
- **Data Stores:** DynamoDB, MongoDB, Redis, RxDB

EDUCATION

- **M.S. Computer Science** — University of California, Riverside Sept 2022 – Dec 2023
- **B.Tech Information Technology** — MAIT, Delhi Aug 2015 – Jun 2019

CERTIFICATION

- AWS Certified Solutions Architect – Associate Jun 2025