

Shantanu Sinha

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Senior Backend Engineer · Distributed Systems

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Senior backend engineer with **8+ years** building distributed systems for fintech and B2B SaaS. Owns a multi-tenant workflow orchestration platform end to end — a custom execution engine with recursive workflows and rollback, the handler services behind its step primitives, and the customer-facing Workflow Builder on top — running as shared infrastructure across 3 services at **~1,000 runs/day**, while leading a small team. Core stack: TypeScript, PostgreSQL, Redis, AWS.

EXPERIENCE

SDE-3 / Neuron7

Nov 2024 – Present · Hybrid, Bengaluru

AI-powered service intelligence platform · B2B SaaS

- Own Neuron7's multi-tenant workflow stack end to end — the custom execution engine (shared infrastructure, ~1,000 runs/day across 3 consumer services) and Customer Workflows, the customer-facing product, including its visual Workflow Builder.
- Designed the engine from scratch: recursive (nested) workflows, rollback/compensation mechanics, and developer-facing handler interfaces with composable step primitives — Assignment, Notification, Integration (ERP pull/push), and AI Enrichment.
- Built the User Tasks Service (human approval and general-task assignment) from the ground up; re-architected the brittle legacy Notifications and Integrations services into reliable step handlers.
- Lead a team of 3 — owning architecture, delivery, and code reviews — and shipped the Dev Kit documentation other engineers build against.

Senior Software Engineer / Rattle Software

Mar 2023 – Oct 2024 · Hybrid, Bengaluru

Salesforce workflow automation platform · B2B SaaS

- Architected Node.js / NestJS backend services with multi-layer caching, cutting API response times **65%** and page-load times **50%**.
- Built Project Board, a Salesforce data-visualization product, from scratch — owned backend API design, coordinated React/Next.js frontend integration, and shipped iteratively from MVP to production, expanding the surface on customer feedback.
- Stood up Docker-based microservices on AWS ECS (Nginx, ALB), built GitHub Actions CI/CD, and defined auto-scaling that held steady through sustained production load.

SDE II / Slice

May 2021 – Mar 2023 · Bengaluru

Consumer fintech — cards, credit, UPI · 10M+ users

- Built two platform microservices consumed across downstream services: a Document Management Service (encrypted KYC storage/retrieval with retention policies) and a Credit Reporting Service (durable bureau-data ingestion, storage, and report generation).

- Rebuilt Jenkins deployment pipelines for reliability and configurability — achieved zero-downtime deployments.
- Revamped the onboarding backend with A/B experimentation infrastructure, driving a **25%** engagement lift and **18%** drop-off reduction.

Software Engineer / Pratilipi

Aug 2019 – May 2021 · Bengaluru

Vernacular content platform

- Built high-performance APIs in Python/Flask, Node/Express, Go, and GraphQL serving **500K+** daily requests.
- Migrated monolithic Python services to cloud-native microservices on AWS ECS — **40%** performance and **60%** resource-utilization gains.

Software Engineer / Goodera

Jun 2018 – Jul 2019 · Bengaluru

Enterprise CSR / volunteering platform

- Built Node.js backend services and supporting React UI serving **100+** enterprise clients.

SKILLS

Languages	TypeScript, JavaScript, Java, Python, Go, SQL
Backend	Node.js, NestJS, Spring Boot, Express, GraphQL, REST
Data	PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Kafka, SQS, WebSockets
Cloud & Infra	AWS (ECS, Lambda, EC2, S3, CloudWatch), Docker, Nginx
Architecture	Distributed Systems, Microservices, Event-Driven, Multi-Tenancy, Caching, Concurrency, Sharding
DevOps	CI/CD (GitHub Actions, Jenkins), Observability, Unit & Integration Testing
Frontend	React, Next.js, Tailwind (supporting)

ACHIEVEMENTS

COMPETITIVE PROGRAMMING

- ACM ICPC — India Regionals, Kolkata site (2016)
- CodeChef — peak rating 1970, across 41 rated contests

LEADERSHIP

- Head, Enigma Programming Club (2017–18)
- Head of CS, Genero 2017 — annual inter-college event
- Chief Coordinator of CS, Genero 2016

EDUCATION

B.Tech, Computer Science — ABES Engineering College, Ghaziabad

Jun 2014 – Jun 2018