NAVEEN KUMAR REDDY

Senior Software Engineer | Platform Architecture | Distributed Systems

Bengaluru, India · Email · Website · LinkedIn · GitHub

SUMMARY

Platform architect with 4+ years building distributed systems at scale. Saved $100M+ contract through 28-day crisis recovery (10TB+, 100% accuracy) when 7 engineers failed.

Sole architect for async platforms handling 10M+ events/sec. Drove $560K+ annual cost savings. Enabled 8+ teams through greenfield design, driving org-wide adoption via documentation, design reviews, and cross-team alignment. Trailblazer Award recipient.

TECHNICAL SKILLS

Languages	Java, Python, Scala, Go, SQL, Bash, C++
Distributed	Kafka, Spark, Airflow, Druid, Redis, Elasticsearch, MapReduce
AWS	EKS, EC2, Lambda, S3, RDS, DynamoDB, Neptune, EMR, Glue, VPC, CloudWatch
Infrastructure	Kubernetes, Docker, Helm, Terraform, GitLab CI/CD, Jenkins, ArgoCD
Databases	PostgreSQL, MongoDB, Redshift, MySQL, Neptune (Graph), Vector stores
Observability	Grafana, Prometheus, DataDog, ELK Stack, Distributed tracing

EXPERIENCE

Nielsen **May 2024 – Present**

Senior Software Engineer

- Led 28-day $100M+ Disney contract recovery after 7 engineers failed over 2 months; recovered 10TB+ across 7 RT pipelines and 6 Airflow DAGs with 100% accuracy; built LCS algorithm + 345KB mapping table for automated reconciliation
- Sole architect: async job orchestration platform with atomic claiming, heartbeat monitoring, autoscaling (10M+ events/sec, 1000+ concurrent jobs); enabled 8 teams; authored 548KB comprehensive documentation
- Designed 7-system data reconciliation framework (AMRLD/C2C/NAPI/NPower/MITS/NNTV/NXGEN) with Neptune graph lineage, 5-layer architecture, sub-hour deviation detection processing billions of records daily
- Drove $560K+/year cost savings: traffic-based autoscaling analyzing 261K requests ($90K), ETL platform redesign with 85% cost reduction ($50K), AWS governance with 14 dashboards eliminating $30K/month spike ($360K)
- Reduced compute 97%: optimized O(n²)→O(1) eliminating 29B operations (2hr→5min); achieved 573,562x faster lookups replacing stream filters with indexed data structures
- Led EKS migration 1.23→1.33 across 4 teams; reverse-engineered NodeConfig format; debugged kernel-level issues (cgroups v2 memory accounting, EFS martian packets from VPC CIDR overlap, NFS loopback deadlocks)
- Authored 7MB+ documentation: 90-page platform gold standards, 253KB DQC framework, 5.4MB strategic API design; reviewed 100+ MRs establishing "Naveen-approved" as organizational quality signal
- Conducted 18 technical interviews (83% rejection rate, 3 quality hires); mentored 30+ engineers through code reviews, pairing sessions, and knowledge transfer

Flexcar **Dec 2022 – Jul 2024**

Senior Software Engineer

- Led zero-downtime SubUI→OMS migration serving 100% production traffic; designed facade layer with intelligent routing and dual-write strategy; migrated 12 core APIs with backward compatibility; 99.9% data consistency
- Reduced latency 90% (P95: 850ms→85ms), increased throughput 5x (500→2500 req/s), cut errors 88% (2.5%→0.3%)
- Built auto-assignment system with 98% success rate; real-time inventory integration handling 15+ edge cases (race conditions, inventory conflicts); reduced manual operations 60%; enabled 24/7 order processing
- Achieved 25% infrastructure cost reduction ($500K annual); CI/CD build time 40% faster (15min→9min)

OYO (Traum-Ferienwohnungen) **Aug 2021 – Nov 2022**

Backend Software Engineer

- Built email automation platform reaching 100K+ customers monthly; 40% cost reduction (€50K+/year); 18% conversion improvement
- Zero-downtime CRM migration of 500K+ records with Kafka real-time sync (<5s latency); SQL optimization 85% (2000ms→300ms)
- Invoice processing 70% faster (15min→4.5min); eliminated N+1 queries; increased test coverage 30%→75% (200+ tests); reduced production bugs 40%

KEY ACHIEVEMENTS

- $100M+ contract saved (Disney, 28-day crisis recovery)
- $560K+/year cost savings across multiple initiatives
- 10M+ events/sec, 1000+ concurrent jobs at scale
- 8+ teams enabled, 3 greenfield platforms architected
- 7MB+ technical documentation authored
- 97% compute reduction, 573,562x lookup improvement
- Zero-downtime migrations (Flexcar, OYO, EKS fleet)
- Kernel-level debugging (cgroups, martian packets, NFS)
- 30+ engineers mentored, 100+ MRs reviewed
- Trailblazer Award – Nielsen (1 per department)

EDUCATION

Bachelor of Technology, Computer Science – VIT Vellore (2017–2021)