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SUMMARY

Backend Engineer with 3+ years of experience building high-performance distributed systems and scalable APIs in Java, Go, and Python. Skilled in concurrency, multithreading, and system-level optimization. Proven success at SentinelOne and Samsung R&D in optimizing throughput and reliability for large-scale cloud workloads using gRPC, Kafka, WebFlux, and CI/CD automation on AWS + Kubernetes.

EXPERIENCE

SentinelOne Bangalore Senior Software Engineer

July 2025 - Present

- Load Testing Platform: Implemented a Gatling-based Load Testing Framework with concurrent thread-pool execution, simulating 10K+ concurrent requests across Java, Go, and Python services.
- Automation with Jenkins: Built a fully automated Jenkins CI/CD pipeline on AWS + Kubernetes, reducing manual setup time by 90% and enabling 50+ parallel pod deployments for performance testing.
- Service Integration: Streamlined the onboarding process for multiple service teams, reducing setup overhead by 81% and standardizing performance testing across the organization.
- Monitoring & Observability: Integrated Grafana + Prometheus dashboards and custom alerts for test environments, reducing incident detection time by 40%.

Samsung Research Institute (SRIN)

Noida, U.P.

Software Engineer

June 2022 - July 2025

- API Architecture: Led the design of critical APIs for an Internal Chat Service, enabling seamless cross-team collaboration and enhancing communication efficiency. Engineered a robust microservices architecture using REST APIs and gRPC, resulting in a 35% reduction in latency.
- Spring Boot Development: Crafted a high-performance file handling system for employee data management, minimizing processing time by 61% through optimized upload/download with Multipart stream.
- o OAuth and JWT Protocols: Established OAuth and JWT protocols for inter-service authentication, reducing security breaches by 99%.
- Encrypted Database Values: Boosted data security by 76% by encrypting sensitive values per environment.
- WebFlux Migration: Migrated REST Templates to WebFlux (non-blocking, multi-threaded reactive framework), increasing API throughput by 80% and cutting thread contention incidents by 65%.
- Feign Client + SSO: Improved authentication security by 80% and reduced attacks by 99% by upgrading token auth to SSO with thread-safe resolution.

Projects

- Multi-Tenant Bot Checker | Spring Tenancy, Java: Improved scalability by 97% by building a Spring Boot multi-tenant bot checker with thread-safe request routing via concurrent interceptors/filters.
- Smart Inventory Management System | Kafka, Prophet AI Model: Built concurrent Kafka consumers to enable real-time inventory sync across 5+ warehouses, reducing stock latency by 70% and improving demand forecasting accuracy by 35% with Prophet AI.

Achievements

- Engineered Innovative search algorithms leveraging Julia's JIT compilation, achieving 2.3× faster query execution on datasets over 1M records.
- Developed an A1 Grade Patent to enhance Call Continuity in Multi-Device Environments optimizing call handovers and network transitions via adaptive signaling and intelligent session management for seamless VoIP communication.

Programming Skills

- o Languages: Java (with concurrency primitives), Go, SQL, Julia
- o Concurrency & Performance: Thread Pools, Synchronization (mutex, condition variable, atomic), Lock-Free Queues, Reactive Streams (WebFlux), REST, gRPC, Kafka
- o Cloud and DevOps: AWS (S3, Lambda, IAM), Kubernetes, Docker, ArgoCD, Jenkins CI/CD, GitHub Actions
- o Architecture and Design: Microservices, Distributed Systems, System Design, RPC Architecture

EDUCATION