

---

SUMMARY

Backend Engineer with 3+ years of experience building scalable distributed systems and high-performance APIs. Currently focused on load testing and microservice orchestration at SentinelOne, with prior experience in backend architecture and system optimization at Samsung R&D. Skilled in Java, Go, and distributed system design with expertise in RPC frameworks, cloud-native infrastructure, and production-grade performance engineering.

---

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.
  - 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**.

---

RESEARCH

- Innovative Searching Algorithms** – Developed novel search optimization techniques with Julia's JIT compilation, achieving **2.3× faster query execution** on datasets of 1M+ records.

---

PROGRAMMING SKILLS

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

---

EDUCATION

- University of Petroleum and Energy Studies** Dehradun, Uttarakhand  
*Bachelor of Technology in Computer Science* *Aug. 2018 – May 2022*