

# PRABHAT RANJAN

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## PROFESSIONAL SUMMARY

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Senior Backend Engineer with 5+ years architecting high-performance distributed systems at scale. **Solely built production-grade next-gen firewall platform from zero-to-one** (300K+ pps, 50+ tenants, enabling Rs. 20+ crore in government bids). Transformed SOAR platform to multi-tenant SaaS scaling 10x to 1000+ tenants processing 5M+ alerts/day. Expert in **Golang, distributed systems, microservices, and cloud infrastructure**. Proven track record taking greenfield projects to production and delivering features that enable government contracts and Fortune 500 renewals. Reduced operational costs by \$2M+ while improving system performance 5-10x.

## EXPERIENCE

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### Senior Software Engineer

May 2025 – Present

Wijungle (Startup) — Gurugram, India

- **Sole architect of production-ready NGFW platform from greenfield** ( $0 \rightarrow 50K+$  LOC, 95%+ coverage, 50+ deployments in 9 months); designed all core systems: multi-tenant isolation (50+ VLOCs), HA control plane (99.99% uptime), distributed routing (BGP/OSPF/RIP), real-time telemetry (500K events/min)
- Built **high-performance packet processing engine achieving 300K pps** with <8ms p99 latency (5x improvement from 60K pps), processing 5TB+ daily traffic across 50+ enterprise deployments using optimized goroutines and lock-free data structures
- Designed **namespace-based multi-tenant architecture** using Linux network namespaces, enabling complete network segregation for 50+ concurrent virtual firewalls with 100% security isolation validated in production
- Engineered **distributed routing control plane with BGP/OSPF/RIP** support via FRR integration, managing 200+ dynamic routes with 99.95% uptime and <100ms convergence time
- Implemented **enterprise-grade HA architecture** using NATS JetStream clustering and Keepalived for VRRP failover, achieving <3 second recovery time, 99.99% availability SLA, and zero data loss across 50+ production failover events
- Built **real-time telemetry pipeline processing 500K+ events/min** using Redis clustering, ManticoreSearch full-text indexing, and custom aggregation for 5TB+ daily network traffic with <500ms query latency
- Enabled **Rs. 20+ crore in government contract bids** under "Make in India" initiative by delivering production-ready NGFW platform serving Indian government agencies, meeting strict security compliance and performance requirements
- Optimized system performance: reduced routing latency  $50\text{ms} \rightarrow <5\text{ms}$  (10x), throughput  $60\text{K} \rightarrow 300\text{K}$  pps (5x), memory footprint by 40%, deployment time 2hrs  $\rightarrow 12\text{min}$  (10x) with zero-downtime rolling updates
- Achieved 99.95% uptime over 9 months with zero security breaches; reduced production incidents from 15/month to <2/month (87% reduction)

### Software Development Engineer

Aug 2020 – May 2025

Trellix / FireEye — Bangalore, India

- Led re-architecture of SOAR orchestration engine (TuAR) from **single-tenant to multi-tenant cloud SaaS, scaling to 1000+ enterprise customers** processing 5M+ security alerts/day with 60% faster alert response and 40% reduced costs (\$500K+ annual savings)
- Designed **secure event processing pipeline** using AWS Lambda, Step Functions, S3, EC2, API Gateway processing 5M+ events/day with <200ms p99 latency, achieving 99.95% uptime SLA across multi-region deployment
- Developed **15+ enterprise security connectors** (Azure Sentinel, Splunk, VirusTotal, CrowdStrike, DarkTrace, Palo Alto), directly contributing to **\$500K+ ARR** and enabling multi-million dollar contract renewals with Fortune 500 clients (Bancolumbia Bank, MTR Corporation)
- Implemented comprehensive observability stack using Prometheus, Grafana, CloudWatch, Kafka; reduced MTTR from 2 hours to 15 minutes (8x faster incident resolution)
- Led cloud migration using Docker, Kubernetes, Terraform, GitHub Actions; improved deployment frequency weekly  $\rightarrow$  daily, reduced deployment failures by 75%
- Built distributed caching layer using Redis clustering; reduced database load by 70%, improved responsiveness 3x during peak traffic (50K+ requests/min)
- Designed multi-tenant security isolation achieving SOC 2 Type II compliance with zero cross-tenant incidents across 1000+ customers
- Reduced operational costs by 40% through optimization and auto-scaling; saved \$2M+ over 3 years

- Developed Python automation tool for Cell Analyzer processing global customer network logs, improving issue resolution efficiency by 35% and reducing manual analysis from 4 hours to 30 minutes; adopted by 50+ support engineers globally

## **TECHNICAL SKILLS**

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<b>Languages</b>	Golang (Expert - 100K+ production LOC), Python, Bash
<b>Backend Frameworks</b>	Gin (Expert), GORM, gRPC, Fiber, FastAPI, Gorilla Mux
<b>Networking &amp; Security</b>	Linux Namespaces, FRR (BGP/OSPF/RIP), nftables, iptables, VRRP (Keepalived)
<b>Distributed Systems</b>	State synchronization, consensus, high availability, fault tolerance
<b>Databases &amp; Caching</b>	PostgreSQL, MariaDB, Redis (clustering), ManticoreSearch
<b>Message Queues</b>	NATS JetStream, Apache Kafka, Redis Pub/Sub, RabbitMQ
<b>Cloud</b>	AWS (EC2, Lambda, S3, Step Functions, API Gateway, CloudWatch), VMware ESXi
<b>Containers &amp; Orchestration</b>	Docker, Kubernetes, Helm
<b>CI/CD &amp; DevOps</b>	GitHub Actions, Jenkins, Makefiles, systemd
<b>Monitoring</b>	Prometheus, Grafana, Elasticsearch, Kibana, CloudWatch

## **EDUCATION**

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**Indian Institute of Information Technology, Allahabad**  
Bachelor of Engineering in Electronics and Communication Engineering — **GPA: 7.9/10**

*2016 – 2020*

## **ACHIEVEMENTS & LEADERSHIP**

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- Sole owner of NGFW platform from concept to production serving 50+ enterprises with 99.95% uptime
- Enabled Rs. 20+ crore in government contracts (Make in India) and \$500K+ ARR from enterprise security products
- Mentored 8+ engineers across two companies, conducted 300+ code reviews, established architecture standards
- Solved 500+ algorithmic problems on [LeetCode](#) and [HackerEarth](#)
- Passed Samsung Advanced Software Competency Test (2020)
- Secured National Rank 15,773 in JEE-Main (Top 1% among 1.5M candidates)