

# PRABHAT RANJAN

Software Engineer

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## OBJECTIVE

Backend engineer with 5+ years of experience in designing and building high-performance, scalable, and secure systems. Currently developing a firewall from scratch single-handedly at Wijungle. Strong expertise in Golang, Python, microservices, distributed systems, and cloud infrastructure (AWS). Proven track record in API design, real-time event processing, CI/CD automation, and cybersecurity platforms. Looking for an Senior sde role to architect and lead impactful backend systems, optimize complex pipelines, and drive product innovation.

## EDUCATION

Indian Institute of Information Technology, Allahabad

2016-2020

Bachelor of Engineering in ECE; GPA: 7.90/10

## SKILLS

### Programming Language

Golang, Python, Bash

### Database

Postgres, Redis, Neo4j, InfluxDB

### FrameWorks

Gin, Fiber, Go Kit, Gorilla, FastAPI

### Message Queue

Apache Kafka, Redis Pub/Sub

### Containerization

Docker, Kubernetes

### CI/CD & DevOps Tools

Jenkins, GitHub Actions, ArgoCD, Helm, Terraform

### Cloud & Virtualization Platforms

AWS, VMWare

### Monitoring Tools

Prometheus, AWS CloudWatch, Grafana, Elasticsearch + Kibana

## EXPERIENCE

### Senior Software Engineer

May 2025 - Present

Wijungle (Startup)

Gurugram, India

- **Multi-Tenant Firewall Design:** Designed and implemented a multi-tenant firewall system in Golang capable of running on-premises and extendable to a SaaS architecture for cloud deployments.
- **Virtual Firewall Implementation:** Built virtual firewalls using Linux network namespaces, ensuring isolated and secure networking environments per tenant.
- **High-Performance Packet Processing:** Engineered low-latency, high-concurrency packet processing using Go concurrency patterns, channels, and worker pools for scalable throughput.
- **Security Policy Engine:** Developed dynamic rule evaluation and enforcement engines for firewall policies, with support for logging, monitoring, and telemetry.
- **Cloud Deployment Integration:** Integrated the firewall with containerized deployments using Docker/Kubernetes and implemented CI/CD pipelines for automated provisioning and configuration management.
- **Technologies Used:** Golang, Docker, Kubernetes, Linux Network Namespaces, Redis, Prometheus, Grafana, CI/CD pipelines

### Software Development Engineer

Aug 2020 - May 2025

Trellix/Fireeye

Bangalore, India

- **SOAR Engine Cloud Transformation:** Migrated Trellix Automated Response (TuAR) from a single-tenant on-premises solution to a multi-tenant cloud architecture, improving scalability, reducing operational costs, and enabling concurrent handling of thousands of alerts across tenants.

- **High-Performance API Database Optimization:** Designed and implemented robust APIs, optimized Postgres schemas, and integrated additional databases to reduce latency and support multi-tenant workflows. Enhanced parsing microservices in Golang to process millions of security events in real-time.
- **AWS Automation Integration:** Leveraged AWS (Lambda, Step Functions, S3, EC2, API Gateway) and Kafka to develop secure, scalable pipelines for file ingestion, metadata caching, and automated playbook execution, ensuring rapid and reliable incident response for clients.
- **Security Integrations Customer Solutions:** Built integrations with internal and external cybersecurity products including Microsoft Azure, VirusTotal, Trellix Endpoint/Email Security, Cloud IVX, and DarkTrace. Resolved complex customer issues, developed custom plugins, and contributed to new contract wins and multi-million dollar renewals.
- **Real-Time Processing Observability:** Engineered systems for high-throughput event parsing and indexing with AWS DynamoDB, Redis, and Kafka. Implemented logging, monitoring, and telemetry to ensure data accuracy and visibility for security operations.
- **CI/CD Infrastructure Automation:** Improved CI/CD pipelines using GitHub Actions, Jenkins, Rundeck, Docker, and Terraform for seamless deployment, automated plugin management, and consistent infrastructure provisioning across environments.
- **Team Collaboration Mentoring:** Collaborated with cross-functional teams to design scalable architecture, mentored junior engineers, and established coding best practices to enhance team efficiency and maintain high-quality code standards.
- **Technologies Used:** Golang, Go-gin, Go-kit, GORM, Postgres, Redis, Kafka, RabbitMQ, Python, GitHub, GitHub Actions, Jenkins, AWS, Neo4j, Kong API Gateway, Consul, Terraform, Docker, Rundeck, Prometheus, Grafana

#### SDE Intern

Samsung Research Institute, Bangalore

Jan 2020 - May 2020

Bangalore, India

- **Python Application:** Designed and developed a robust Python application for Samsung's Cell Analyzer Tool to process and parse customer log data from diverse global sources. Enhanced data analysis capabilities and streamlined customer issue resolution.
- **Technologies Used:** Python, Tkinter, Visual Studio Code, Git

#### ACHIEVEMENTS

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- **Firewall from scratch:** Currently leading the development of a high-performance firewall system solo.
- Secured an exceptional All India Rank of 15,773 in JEE-MAIN 2016, ranking in the top 1% among 1.5 million aspirants with a score of 180 marks.
- Passed the Advanced Level Samsung Software Competency Test in 2020, demonstrating a high level of proficiency in software development and problem-solving.
- Successfully collaborated with Bancolumbia Bank to deliver solutions on time, contributing to securing a multi-million dollar contract and driving the transition from IBM to Trellix's TuAR product.
- Worked directly with MTR customer to resolve critical issues in multiple security integrations, contributing to the successful renewal of a multi-million dollar contract.
- Showcased exceptional problem-solving and programming skills by actively engaging in coding challenges, solving over 500+ problems across prominent platforms like **Hackearth** and **LeetCode**.
- Achieved multiple certifications on HackerRank, demonstrating expertise in various programming and problem-solving domains. [Link](#)