

Abhishek Sirohi

Lead Software Engineer · Cloud Security & Distributed Systems

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SUMMARY

Engineer with 6 years building the backend systems cloud security runs on. At Qualys I lead the team behind the industry's first graph-database (JanusGraph) inventory and rule-evaluation engine — modeling cloud environments as a connected graph so attack paths become queries instead of manual guesses. Deep in distributed, event-driven systems (Kafka, Redis, Kubernetes) at enterprise scale, with a track record of taking ambiguous detection problems and shipping systems teams actually trust. Looking for staff-level work in cloud security and large-scale distributed systems.

CORE SKILLS

Distributed Systems: Event-driven architecture, Apache Kafka, Redis, horizontal scaling, fault tolerance, high-throughput pipelines

Cloud Security: CSPM, attack-path analysis, policy/rule engines, automated remediation, cloud inventory at scale (AWS, GCP)

Graph: JanusGraph, Gremlin, Apache TinkerPop, graph modeling for security context

Platforms & Infra: Kubernetes, Docker, Terraform, Serverless, Elasticsearch, Grafana, Prometheus

Languages & Backend: Node.js, TypeScript, JavaScript, Python, Express, RESTful APIs

AI Integration: MCP servers (natural-language interfaces to backend systems), AI-driven development

EXPERIENCE

Lead Software Engineer Jun 2025 – Present

Qualys Pune, India

- Lead the team building Qualys' inventory and rule-evaluation engine — the industry's first built on a graph database (JanusGraph).
- Own the architecture for ingesting cloud assets at scale and modeling them as a connected graph rather than a flat asset list, on a distributed stack (Kafka, Redis, Kubernetes, Node.js) built to scale horizontally.
- Built real-time attack-path analysis and a policy-based rule engine on top of the graph — tracing how an attacker could move from an exposed resource to a sensitive one as a graph traversal, and flagging it automatically.
- Exposed an MCP server for natural-language graph querying, making the graph usable by security analysts directly rather than only the team that built it.
- Set technical direction and own the hard tradeoffs: graph schema design, query performance, and what is precomputed versus resolved at query time.

Senior Software Engineer Jun 2023 – Jun 2025

Qualys Pune, India

- Built core features and performance improvements for QFlow, Qualys' low-code/no-code engine for building drag-and-drop cloud detection and remediation workflows; delivered measurable gains in platform efficiency.
- Built the Node-RED-based low-code platform powering graph ingestion and attack-path creation, letting workflows be composed without writing scripts from scratch.
- Set code-review standards and drove distributed-systems best practices across the team.

Software Engineer Aug 2021 – Jun 2023

Qualys Pune, India

- Built full-stack features across Qualys' cloud-security and automation stack.
- Designed event-based trigger systems extending Qualys Scan for customer environments — firing scans and downstream actions off cloud state changes.
- Improved system throughput and reliability through fault-tolerant design and monitoring dashboards.

Software Engineer Aug 2020 – Aug 2021

Kandor Soft Labs (acquired by Qualys) Bengaluru, India

- Joined the startup behind the TotalCloud cloud-security platform — later acquired by Qualys — and shipped product features end to end.
- Built a quick-actions and issue-tracking dashboard that cut debugging time ~30%, and a dynamic table-generation tool that reduced table-building effort ~70%.

SELECTED WORK

Cloud Graph Inventory & Attack-Path Platform

- Industry-first graph-database approach to cloud inventory: ingestion pipeline, graph-based asset model, attack-path identification, and a policy-driven rule engine for automated threat detection. Exposed via an MCP server for natural-language querying.

Stack: JanusGraph, Node.js, Express, Node-RED, Kubernetes, Kafka, Redis, Elasticsearch, Oracle, AWS, GCP

QFlow — No-Code Cloud Workflow Orchestration

- Core features for a low-code/no-code platform letting enterprise security teams build drag-and-drop detection and remediation workflows across cloud infrastructure, with event-driven scanning and automated remediation.

EDUCATION

B.Tech, Computer Science — Rajkiya Engineering College, Kannauj 2016 – 2020