

# Abhishek Sirohi

## Lead Software Engineer

Pune, India | +91 9759781207 | [abhisheksiroh19@gmail.com](mailto:abhisheksiroh19@gmail.com) | <https://abhisheksirohi.com>

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## Professional Summary

Dynamic Lead Software Engineer with **5+ years** of expertise in building **scalable, enterprise-grade solutions** that drive real-world impact. Currently spearheading **graph database technology initiatives** at Qualys, with proven leadership in **distributed systems, cloud security, and full-stack development**. Successfully evolved from individual contributor to technical leader, delivering innovative solutions that enhance platform performance and security posture.

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## Core Competencies

### Technical Leadership & Architecture

- System Design & Architecture | Distributed Systems | Scalability Engineering
- Graph Database Technologies (JanusGraph) | Cloud Security Solutions

### Programming & Frameworks

- **Languages:** JavaScript, TypeScript, Node.js, Gremlin
- **Frontend:** React.js, Next.js
- **Backend:** Express.js, RESTful APIs, Serverless Architecture

### Cloud & DevOps

- **Cloud Platforms:** AWS, GCP
- **Containerization:** Docker, Kubernetes
- **Infrastructure:** Terraform, Serverless Framework
- **Monitoring:** Grafana, Prometheus

### Databases & Storage

- **Graph:** JanusGraph
- **NoSQL:** MongoDB, DynamoDB, Redis
- **Relational:** Oracle

### Data & Analytics

- **Streaming:** Apache Kafka
  - **Search:** Elasticsearch
  - **Fundamentals:** Data Science, Machine Learning
  - **AI Integration:** Prompt Engineering, AI-Driven Development
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## Professional Experience

### Qualys | Pune, Maharashtra

#### Lead Software Engineer | June 2025 - Present

- **Pioneered Graph Database Initiative:** Led cross-functional team to deliver Qualys' first **JanusGraph-based inventory collection** and **rule-evaluation engine**, establishing new technological foundation for enterprise security solutions
- **Architected Scalable Infrastructure:** Designed and implemented distributed system architecture using **Kafka, Redis, Kubernetes**, and **Node.js**, enabling horizontal scaling and improved system reliability
- **Technical Leadership:** Mentored development team, established coding standards, and drove architectural decisions for next-generation security platform

#### Senior Software Engineer | June 2023 - June 2025

- **Performance Optimization:** Enhanced **QFlow module performance** by implementing optimization strategies, resulting in measurable improvements to platform efficiency
- **Code Quality Leadership:** Established and led code review processes and productivity initiatives, improving team collaboration and code maintainability
- **Innovation in Security:** Developed **No-Code/Low-Code event-driven platform** for **cloud resource scanning** and **attack path generation**, enabling security teams to identify vulnerabilities more efficiently

#### Software Engineer | August 2021 - May 2023

- **Full-Stack Development:** Built comprehensive cloud security solutions addressing multiple automation and security challenges in enterprise environments
- **Event-Driven Architecture:** Designed and implemented **event-based trigger systems** to enhance **Qualys Scan** capabilities for customer environments
- **System Optimization:** Improved **system throughput and performance** through best practices implementation and comprehensive monitoring dashboard development
- **Reliability Engineering:** Identified and enhanced **fault tolerance capabilities**, ensuring robust system operation under various failure scenarios

### Kandor Soft Labs (acquired by Qualys) | Bengaluru, Karnataka

#### Software Developer | August 2020 - August 2021

- **Product Development:** Contributed to **TotalCloud** platform development, focusing on **user experience enhancement** and feature functionality
  - **Technology Stack:** Worked with **React, Node.js, AWS, Serverless**, and **DynamoDB** to deliver scalable cloud management solutions
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## Key Projects & Achievements

### Cloud Graph Inventory Management Platform

#### Technical Innovation in Graph Database Technology

- Architected and developed **distributed low-code/no-code platform** using **Node-RED** to power graph ingestion system
- Implemented **cloud graph inventory visualization** with **attack-path identification** capabilities across cloud infrastructure
- Integrated **cartography** and **rule engine** based on security policies for automated threat detection
- **Breakthrough Innovation:** Exposed **MCP server** for natural language graph querying, enabling intuitive data access
- **Tech Stack:** Node.js, Express, Node-RED, Kubernetes, Elasticsearch, JanusGraph, Oracle DB, Kafka, Redis, AWS, GCP

### QFlow - Distributed Workflow Orchestration

#### Enterprise-Scale Automation Platform

- Designed and developed core features for **distributed workflow orchestration** platform
- Enabled users to create and execute workflows for **cloud infrastructure management** and **workload protection**
- Implemented **event-driven scanning** and **automated remediation** capabilities
- Delivered significant improvements in operational efficiency for enterprise security teams

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## Education

### Rajkiya Engineering College, Kannauj

#### Bachelor of Technology - Computer Science & Technology

*August 2016 - June 2020 | Kannauj, Uttar Pradesh*

- **CGPA:** 7.2/10.0
- **Focus Areas:** Computer Science fundamentals, software engineering principles, data structures and algorithms

### Meerut Public School

#### Intermediate (10+2) - Science Stream

*April 2014 - March 2015 | Meerut, Uttar Pradesh*

- **Percentage:** 91.3%

- **Subjects:** Physics, Chemistry, Mathematics, English
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## Leadership & Recognition

### Professional Leadership

- **Assistant Coordinator** | Unnat Technical Club, RECK (*Jan 2018 - Jun 2020*)
  - Co-founded and coordinated newly established technical club
  - Led design team and organized multiple technical events
- **Technical Secretary** | Abhyutthan 2018, RECK (*Oct 2018 - Nov 2018*)
  - Managed annual techno-cultural fest, planning events and leading graphics design team
  - Successfully organized college's first-ever comprehensive technical festival

### Awards & Achievements

- **Most Dynamic Student** - College-wide recognition for exceptional contribution
- **Academic Excellence** - Perfect CGPA 10/10 in 10th board examinations
- **Sports Championship** - Won inter-college football tournament consecutively (2019, 2020)

### Professional Interests

- **Continuous Learning:** Actively exploring emerging technologies and business trends
  - **Sports:** Competitive football player with team leadership experience
  - **Technology Innovation:** Passionate about graph databases, AI integration, and cloud security
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