

Aaryaman Katoch

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SUMMARY

Senior Cloud Security & Reliability Engineer with 5+ years of experience delivering secure and scalable infrastructure. Drive **DevSecOps**, **SRE**, **Pre-Sales** and **Solutions Engineering** initiatives across CI/CD, IaC, system design, and compliance in enterprise environments.

EDUCATION

Master of Science in Computer Science, Stevens Institute of Technology *Hoboken, NJ*
May 2024
Advanced Cloud Computing, Database Management, Text Mining, Web Development

Bachelor of Engineering in Computer Science, RV College of Engineering *Bengaluru, IN*
May 2021
Operating Systems, Data Structures Algorithms, UNIX, Parallel Programming, Database Design

TECHNICAL SKILLS

Languages & Networking: Python, Go, JavaScript, YARA-L, Bash, Shell, HTTP, TCP/IP, UDP, DNS, TLS, mTLS
Web Technologies: NodeJS, ReactJS, TypeScript, Tomcat, REST API, SpringBoot, CSS, HTML5
DevOps & Automation: Git, Jenkins, CI/CD, Jira, OpenVPN, JFrog Artifactory, Argo CD, Looker, Skaffold, Bitrise CI, Wireshark
Databases & Observability: MySQL, PostgreSQL, MongoDB, Grafana, Prometheus, Elasticsearch, Logstash, Kibana, Redis, IDS, IPS
Cloud & Infrastructure: GCP, AWS, Azure, Terraform, Ansible, Docker, Kubernetes, Helm, IAM, YAML, VMware, Linux, Security

WORK EXPERIENCE

SEARCE INC *Houston, TX*
July 2025 – Present

Senior Cloud Security and Reliability Engineer

- Delivered an AI powered migration accelerator leveraging **Gen AI** and AI assistants to automate conversion of AWS, Azure, and on-prem estates into Google Cloud architectures using Terraform IaC. Applied strong project management and technical expertise to accelerate multi-million-dollar cloud migrations, improving **code quality**, maintainability, and security compliance by 40%.
- Spearheaded **HIPAA** compliance across enterprise IT infrastructure by translating business and regulatory requirements into technical controls, implementing robust security and access management frameworks, achieving 100% audit readiness.
- Developed **CI/CD** pipelines using **Jenkins** for multi-platform container builds with artifact versioning and image promotion. **Argo CD** implementing GitOps continuous delivery to Kubernetes. Reduced deployment time by 70% and improved release reliability.

Cloud Reliability Engineer

May 2023 – June 2025

- Deployed a cloud-native **intrusion prevention (IPS)** system using NGFW appliances and Terraform IaC, integrating threat intelligence feeds, auto-remediation workflows, and **policy-as-code** to block 99% of malicious traffic with zero false positives.
- Trained **six** junior engineers in cloud architecture and best practices, conducted **code reviews**, and guided **root cause analyses** to maintain high code quality, promoting all to L2 engineers and improving team productivity by 20% through better resource usage.

SEARCE COSOURCING SERVICES PRIVATE LIMITED

Pune, India

Cloud Engineer

January 2021 – July 2022

- Designed and executed **over 10 Proof of Concepts (PoCs)** and pilot projects on **AWS & Azure**, leading to **5 successful client cloud adoptions** and a **10% increase in pipeline**. Participated in on-call rotation leveraging **PagerDuty** for production incidents.
- Configured **continuous integration** via GitHub Actions for tag based and scheduled deployments, improving the **deployment efficiency KPI** by 70% and reducing manual effort. Integrated deployment status and error notifications to **Slack** channels.

PROJECTS

Enterprise Cloud Migration to GCP *March 2025*

- Implemented blue/green deployment pipelines using **Terraform**, **Helm Charts**, and **Istio** within a GitLab CI/CD-driven Infrastructure as code framework, automating multi-region GCP infrastructure provisioning and reducing deployment time by 60%.
- Refactored and containerized monolithic applications into **microservices** for GKE, enabling autoscaling and connection pooling that increased throughput **8x (400 → 3,200 RPS)** while maintaining **P95** latency under **100 ms**.
- Set up a unified observability platform on **GKE** using the **ELK** stack (Elasticsearch, Logstash, Kibana), **Prometheus**, and **Grafana**, improving visibility across microservices, reducing mean time to detect (MTTD) by **40%**, and accelerating incident response.

Security Operations (SecOps) SIEM & SOAR Implementation

November 2025

- Led end to end Google Security Operations (**SIEM & SOAR**) implementation, designing ingestion architecture, IAM, and detection strategy to process **50K+ EPS** and **2+ TB/day** of security logs, enabling audit ready production go live for a regulated enterprise.
- Built **BindPlane** based ingestion pipelines integrating 30+ log sources with UDM normalization and enrichment, enabling SIEM detection rules to trigger automated alerts via **PagerDuty** and **YouTrack**, reducing mean time to respond (MTTR) by 40%.
- Implemented 45+ custom detection rules, 12 automated **SOAR playbooks**, and 8 **SOC dashboards**, increasing threat visibility.

CERTIFICATIONS

Professional Cloud Architect — GOOGLE: *Architecting and managing scalable, highly available, and secure solutions*

Professional DevOps Engineer — GOOGLE: *Implementing CI/CD, automation, and site reliability practices*

Professional Data Engineer — GOOGLE: *Designing and building data processing and machine learning models*

Professional Network Engineer — GOOGLE: *Designing, implementing, and managing reliable and secure network architectures*