**Lokesh Kanakamedala**

Dallas, TX | 409-999-0430 | lok.cd7@gmail.com

**Summary of Qualifications**

* Lead AWS Cloud Engineer and Architect with expertise in security, cost optimization, and enterprise architecture
* Extensive experience in cloud security technologies, processes, and strategic innovation
* Advanced proficiency in AWS services and cloud platforms
* Proven leadership in managing cross-functional teams and driving technological transformation
* Strong skills in technical strategy, information technology consulting, and architectural direction
* Expertise in agile methodologies, conflict resolution, and cross-functional collaboration

**Professional Experience**

**Client – Goldman Sachs Dallas, TX Jan 2024- Present**

**Lead Cloud Engineer – Internal Audit**

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**Responsibilities:**

* Leveraged cloud security and risk management expertise to proactively assess and mitigate security and operational risks across Goldman Sachs' cloud infrastructure.
* Audited CI/CD pipelines for controls, security measures, and best practices, ensuring secure and efficient software delivery processes.
* Inspected Implementation of Checkmarx Cloud for application security in the cloud, cloud-native vulnerability scanners, Cloud workload protection platforms (CWPP), or cloud security monitoring tools.
* Performed Compliance Testing for Cloud Regulations.
* Reviewed Log Management procedures and Retention Periods of different types of logs stored in ELK Stack.
* Assessed resiliency of back-end applications running on ECS containers using Docker, ensuring high availability and fault tolerance in cloud environments.
* Partnered with cloud engineering, security operations, and business stakeholders to remediate identified security issues and ensure continuous improvement.
* Reported audit findings and recommendations to Goldman Sachs management for cloud control improvement.

**Client - The Depository Trust & Clearing Corporation (DTCC)-Dallas, TX Jun 2021- Jan 2024**

**Senior Cloud Engineer and Architect**

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**Responsibilities:**

* **Led a cross-functional team** (developers, Ops engineers) to implement a new cloud-based security solution using a CI/CD pipeline that helped customers achieve regulatory compliance from self-healing systems triggered by monitors, near real-time metrics, & log information. (Config, SSM, Lambda, CloudWatch, and Splunk).
* Established architectural direction for cloud initiatives, ensuring alignment with business strategy.
* Implemented agile methodologies in cloud projects, enhancing team productivity and project outcomes.
* Conducted in-depth analysis of emerging technologies to inform strategic decision-making.
* Led technical strategy sessions to align cloud security initiatives with organizational goals
* Demonstrated strong communication skills in presenting complex technical concepts to non-technical stakeholders
* Launched an alternative compliance tool that runs on Jenkins with manual triggering jobs - for bulky remediations requiring downtime or following the extensive process. (Jenkins, AWS, Python, and Splunk)
* Implemented innovative features in new software releases, involved collaborating with product managers to understand market needs, analyzing user feedback, and prioritizing functionalities to ensure high user adoption and business value.
* Experienced in building and maintaining robust observability platforms and implementing resiliency strategies to ensure high system availability and performance.
* Strong understanding of business ecosystems, SaaS, IaaS, PaaS, APIs, and event-driven IT.
* Pioneered innovative approaches to cloud infrastructure management, enhancing system reliability.
* Collaborated with business units to gather requirements and translate them into technical solutions.
* Identified and addressed security vulnerabilities within the cloud environment, improving overall security posture.
* Streamlined remediation and security workflows by automating manual tasks and implementing best practices, resulting in increased efficiency and accuracy.
* Identified and implemented process improvements for vulnerability management, reducing remediation time by 50%.
* Developed and implemented cost-efficient strategies that helped customers reduce their cloud spending while maintaining high levels of performance and availability.
* Partnered with Financial Management and Technology partners to ensure deployment plans for new/enhanced services are transitioned successfully into operations.
* Productized backup and restore procedures, including data retention policies and archiving, leveraging Python automation.
* Migrated and centralized AWS Cloud metrics, traces, and logs into Splunk for comprehensive cloud observability and enhanced troubleshooting capabilities with the help of Observability Access Manager in AWS.
* Collaborated with Architecture, Ops, and security teams to develop and implement security playbooks for incident response and vulnerability management processes.
* Managing business relationships with key stakeholders (Product, Business, and IT), understanding their business problems, and appetite for business risk, and guiding them on IT strategy and direction.
* Facilitated conflict resolution in cross-functional teams like Delivery, Ops, and Security Teams, improving collaboration and project outcomes.
* Govern technology standards and patterns, reducing complexity by 25% and improving delivery speed by 40%
* Spearheaded New cloud service evaluation and assessment for adoption to firm requirements.
* Conducted technology assessments to validate Security Baselines and provide technical directions if desired.

*Accomplishments:*

* Automated remediation tools delivering improved Compliance and enhanced security controls.
* Successfully implemented Expense Optimization strategies for cloud infrastructure and applications, resulting in significant cost savings of ~ 60K $ Monthly

**Client - The Depository Trust & Clearing Corporation (DTCC)-Dallas, TX Feb 2019- May 2021**

**Cloud Security and Compliance Engineer.**

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**Responsibilities:**

* Acted as point of contact to executive leadership for dimensioning, managing, and driving remediation of information security risk within the context of the DTCC Cloud Infrastructure.
* Ensured adequate automated security solutions and controls were in place throughout the Cloud platform and services using tools like Dome9 and a homegrown tool.
* Troubleshot the recurring security findings, pinpointing the root cause and implementing solutions to prevent recurrence.
* Conducted testing and validation of backup and recovery procedures.
* Developed governance policies, and helped rewrite policies by the new technologies.
* Leveraged SIEM tools (e.g., Splunk) to analyze security logs and identify potential threats, enabling proactive security monitoring.
* Worked collaboratively to define and design secure database access controls and IP restrictions within the firewall configuration, mitigating potential security risks.
* Designed and implemented a consolidated logging solution on Cloud WAF (secure firewall configuration) mitigating potential security risks by restricting inbound/outbound traffic.
* Consolidated WAF logs from multiple AWS accounts into a central SecOps Log Management Account and forwarded them to an SIEM tool for comprehensive threat monitoring and analysis. This enhanced our ability to detect and respond to security incidents across the entire cloud environment.
* Collaborated and communicated with functional-area specialists, cloud architects, and security specialists to design, configure, and/or develop security solutions for the cloud platform.
* Collaborated with security teams to develop and implement security playbooks for incident response and vulnerability management processes.
* Designed IAM **roles and policies** for services and users in **IAM** limiting to Actions and resources required.
* Provided effective resolutions to issues and escalated problems with knowledgeable support.
* Stayed closely with external auditors and internal audit teams in managing and supporting the audits.
* Effectively communicated complex security concepts to both technical and non-technical audiences, fostering security awareness
* Supported implementation, modification, and improvement of sponsor risk management framework workflow and parts. Driving secure coding initiatives across the company by defining training, identifying weaknesses, and educating developers.

*Accomplishments:*

* Driven and remediated many applications for data protection, access, and privilege concerns in the Cloud resulting in improved compliance across the organization.

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**EA Learn INC, NJ Sept 2016- Jan 2019 *Cloud Engineer – Infrastructure Support***

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**Responsibilities:**

* Deployed AWS services **specifically VPC, EC2, S3, EBS, IAM, ELB, and Cloud Watch** using AWS Console and Command Line Interface.
* Operated in partnership as part of larger delivery teams which include project managers, business analysts, architects, developers, and change management professionals.
* Experienced in engineering a detailed design of highly available, high-capacity geographically distributed applications.
* Authored proof-of-concept prototype applications for demonstration and evaluation purposes.
* Tested and troubleshot applications and documented issue resolutions for the development team.
* Generated reports and performed analysis on usage, capacity, and performance of storage and backup systems.
* Oversaw costing, design, build, and management of infrastructure environments needed in the AWS hosting platform.
* Automated infrastructure using **Terraform** and made it auditable by storing infrastructure changes to a version control system like **GIT**.
* Created Snapshots and Amazon Machine Images for backup and creating clone instances.
* Configured **VPC** with multiple private/public subnets in different **availability zones** for high availability.
* Worked on automating Secure deployments and configuration management tasks with Chef on Cloud Ec2 instances.
* Used Jira for Bug Tracking, **Nagios and Graphite** for System monitoring, **Cloud Watch, and Cloud Trial** for monitoring the cloud environment, and used SNS for notifying in case of exceeding the threshold.

*Accomplishments:*

* Designed highly available, Cost-saving, fault-tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance, and AMIs.
* Implemented a data processing pipeline using AWS Lambda functions, S3, SNS, SQS, and other services.

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**Anjalee Business Solution- Hyderabad, TL May. 2013-Dec 2014**

***Systems Administrator- Infrastructure Support***

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**Responsibilities:**

* Planned and monitored version control, release management, and configuration management for application development and maintenance.
* Maintained, and troubleshooted issues in Linux servers.
* Established cron jobs scripts on production servers.
* Monitored system activities like CPU, memory, disk, and swap space usage to avoid performance issues.
* Serviced and configured Ubuntu, and Centos on remote and desktop servers.
* Installed patches and packages using RPM and YUM in Red Hat Linux.
* Created and modified users and groups with SUDO permission.
* Identified and resolved issues related to setup and network connectivity using net stat and ping tools.
* Kept a flexible schedule and resolved after-hours and weekend emergencies quickly and accurately.

**Education**

**Master’s Degree (Jan 2015 – May 2016)**, Engineering Management, Lamar University

**Bachelor's Degree (Jun 2009 – May 2013)**, Electrical and Electronics Engineering, KL University

 **Certificates**

* AWS Certified Security – Specialty
* AWS Certified Developer Associate
* Cisco Certified Network Associate (CCNA).