Abhishek Kumar

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Education	
 Indian Institute of Technology (IIT), Bombay Master of Technology (M. Tech), Computer Science and Engineering(CSE) 	July, 2017
• JCD Memorial College of Engineering, Sirsa (Haryana) Bachelor of Technology (B. Tech), Computer Science and Engineering(CSE)	July, 2014
Experience	
Site Reliability Engineer, DataXu	July 2017 - Present
 Development of an IaC Golang tool to manage company's critical AWS reso automated environment by codifying the AWS resources into configurations. 	urces in a versioned and
 Implementation of Golang, Jenkins based tool to grant temporary, auditable cross to an IAM role. 	s account S3 bucket access
• Redesigned company wide AWS access leveraging Single Sign-on. Efforts involve	ed configuring fine grained

• Development of a lambda based break-glass procedure to assume elevated permissions while handling escalations.

roles for SSO and provision of a wrapper over aws-cli to authenticate a user against Okta using SAML

- Development of lambda based tool to examine tags of newly created resources as per company tagging guidelines to track AWS cost at more granular level.
- Provisioning of Athena workgroups to get better cost distribution between teams and applications.
- Investigation of spot fleets over on-demand instances for cost optimization.
- On-call duties to ensure availability and performance of SRE's services.
- Agile Software Development using SCRUM.

——— Technical Exposure —————

• Certification: Oracle Certified Professional, Java SE 6 Programmer

assertion to retrieve temporary STS credentials from AWS.

- Languages: Golang, Java, Python, Bash scripting
- AWS: IAM, EC2, S3, Lambda, SNS, SQS, Athena, KMS, Cloudwatch, aws-cli, botocore etc
- Automation: Jenkins, Ansible
- Miscellaneous: Github, Artifactory, Linux etc

- IITB Network Monitoring and traffic analysis
 - Worked on zabbix framework to monitor network and determine the usage of network resources
 - Optimal level of anonymization so that users remain anonymous, but usage trends remain extractable while analysis
- Implementation of Distributed File Server Based on RAFT Consensus Protocol
 - o Implemented a highly concurrent file server with Read, Write, Append, Delete, Compare-And-Swap and automatic expiry time as built-in primitives
 - Made the file server fault-tolerant by replicating it using the Raft consensus protocol. A system of five servers behaves as one transparently, and can survive node failures as long as a majority is functional
 - o Implemented multithreading in file server to handle multiple clients at same time using Golang
- Implementation of Zero Knowledge Authentication protocol
- Seminar on Online Voting System using Bitcoin and Blockchain