## **Abhishek Kumar**

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———— Education ————	
<ul> <li>Indian Institute of Technology (IIT), Bombay</li> <li>Master of Technology (M. Tech), Computer Science and Engineering(CSE)</li> </ul>	July, 2017
• JCD Memorial College of Engineering, Sirsa (Haryana)  Bachelor of Technology (B. Tech), Computer Science and Engineering(CSE)	July, 2014
Experience	
Software Engineer, DataXu	July 2017 - Present
<ul> <li>Development of an IaC Golang tool to manage company's critical AWS resources automated environment by codifying the AWS resources into configurations.</li> </ul>	in a versioned and
<ul> <li>Implementation of Golang, Jenkins based tool to grant temporary, auditable cross according to an IAM role.</li> </ul>	ount S3 bucket access
<ul> <li>Redesigned company wide AWS access leveraging Single Sign-on. Efforts involved cor roles for SSO and provision of a wrapper over aws-cli to authenticate a user again assertion to retrieve temporary STS credentials from AWS.</li> </ul>	

• Provisioning of Athena workgroups to get better cost distribution between teams and applications.

• Development of Python based tool to examine tags of newly created resources as per company tagging

• Development of a Python based break-glass procedure to assume elevated permissions in AWS while

- 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.

guidelines to track AWS cost at more granular level.

## **Technical Exposure**

- Certification: Oracle Certified Professional, Java SE 6 Programmer
- Languages: Golang, Java, Python, Bash scripting
- AWS: IAM, EC2, S3, Lambda, SNS, SQS, Athena, KMS, Cloudwatch, aws-cli, botocore etc
- Automation: Jenkins, Ansible

handling escalations.

• Miscellaneous: Github, Artifactory, Linux etc

## **Academic Projects**

- 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