

Shriram Kumar

Application Developer (Big Data, AWS, Devops)

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CAREER OBJECTIVE

Having 4+ years of experience in the IT industry, with around 3 years of working experience in AWS cloud and DevOps and close to 1 year of experience in big data domain and data engineering. Having good working knowledge of sql, python, spark, hadoop, hive, rdbms. Having working experience in devops tools like jenkins, bitbucket, linux and AWS cloud. Looking to work as a data engineer in an analytics driven working environment. Certified in AWS solutions architect associate, jenkins, spark, hadoop, SQL and python.

Having gold badge in SQL and python from Hackerrank.

SKILLS

SQL, Python, Pyspark, Spark, Hadoop, Hive, Scala, Jenkins, Bitbucket, Linux, AWS, EC2, S3, ECS, Service Catalog, Glue, Redshift, EMR, SSM, Security Groups, Load Balancers, API Gateway, Cloud Formation, Lambda

WORK EXPERIENCE

IBM – Application Developer (Big Data, AWS, Devops)

Sep 2021-current

Chennai, India

- Working as an Application Developer in IBM for the client, **Barclays Bank**
- Undergone industry level training provided by IBM and have hands on experience in working with requirements such as loading csv/json files to spark RDDs and doing transformations and actions on it to get the expected result set. Having experience in working with spark structured APIs, like dataframes and spark SQL, like loading csv/json files to spark dataframe, doing dataframe transformations, converting dataframes to tables to work with spark SQL. Having good knowledge on spark architecture, hadoop, hive, mapreduce and YARN
- Built and maintained cloud infrastructure on AWS cloud and created jenkins CI/CD pipelines for API build and deployments. Built jenkins pipelines that would fetch an API jar file from Nexus Artifactory and would deploy the JAR as a java application inside AWS docker containers residing in AWS ECS Cluster
- Optimized the ECS cluster by doing regular performance analysis on the ECS cluster, to improve the resource usage and save costs on the resource utilization. Improved the capacity provider strategy so that the downtime of the ECS Cluster is 0% and availability is improved close to 100%
- Driven the requirement of privatized secrets management, which is essentially storing the sensitive credentials on a client created vault. These credentials would be required by the java application running in ECS container during runtime to interact with other APIs. Modified the Dockerfiles accordingly to fit this new requirement
- Created loosely coupled architectures using AWS S3 and Dynamo DB. Driven the initiative to design an architecture, where the configuration files of each API would be uploaded to nexus and from nexus to S3 through a jenkins pipeline and finally from S3, the configurations would be loaded during container runtime. Any output by the application is stored as a record in a Dynamo DB table with Global Secondary Index
- Implemented a strategy where a service catalog product in AWS using Cloud formation templates written in YAML would be written and published to AWS service catalog product list. From there, a jenkins pipeline would launch the product, thereby creating the AWS resources mentioned in the product's YAML
- Involved in many leadership activities, like giving knowledge transfer to juniors and organizing and distributing workloads among the team to improve productivity

Infosys - Senior System Engineer (AWS, Big data, Devops)

May 2018 - Sep 2021

Chennai, India

- Worked for the client, **Glaxo Smith Kline (GSK)** as part of the cloud operations team. Area of work includes software code debugging, website hosting, Linux system administration and AWS cloud infrastructure creation and maintenance
- Exhibited good knowledge on Linux. Worked on creating configuration files on apache web servers. Worked on site redirection, and most common Linux admin tasks
- Performed the role of an AWS cloud engineer. Created virtual infrastructures on AWS and managing them using the suite of AWS services
- Designed AWS VPC's that are highly available and fault tolerant to manage the client's infrastructure with all necessary compute and storage and networking resources. Operated on cloud watch to collect the VPC flow logs for monitoring the VPC traffic and also to collect logs from individual resources
- Created S3 buckets and used IAM to give access to users by attaching IAM roles to individual users or groups
- Utilized AWS IAM and its features like users, groups, roles , permissions to create users and groups according to the requirement and provide the access to necessary AWS services through IAM roles and permissions
- Undergone Infosys training in big data frameworks like spark, Hadoop and sql, python ,linux, shell scripting. Did big data projects using pyspark to read CSV files, did transformations to the file based on the business use case and saved file to local and hdfs file system

CERTIFICATIONS

- AWS Certified Solutions Architect Associate
- Certified Jenkins Engineer
- Hackerrank SQL Certified
- Hackerrank Python Certified
- Apache Spark General Purpose Cluster Computing Framework - TrendyTech
- Getting Started with Big Data and Understanding HDFS Concept along with Linux Commands - TrendyTech
- Python for Data Science and AI - Coursera
- Relational Databases (RDBMS) Essentials - Coursera
- Data Engineering Essentials - Coursera

ACHIEVEMENTS & AWARDS

- **Performance Award - IBM Mar 2022:** Recognized for best performer from my business unit, for contributing towards innovation and productivity. Led the project to implement security features during API runtime and had built jenkins pipelines for various use cases that would require integration with various AWS services.
- **INSTA Award - Infosys Mar 2019:** Got INSTA Award for identifying a critical server downtime in client application, which helped in resolving the issue before it got noticed, thereby preventing impact on end users of the application

EDUCATION

Velammal Engineering College - Bachelor of Engineering, Electronics and Communications Engineering

2014 - 2018

Chennai, India