PRASHANT SHISHODIA

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| * prashantsh0404@gmail.com | * linkedin.com/in/prashant-shishodia | * github.com/prashantsh-0404 | * 503-544-9245 | * Portland, OR |

EDUCATION

**Texas A&M University, Mays Business School College Station, Texas**

Master of Science in Management Information Systems May 2019

**National Institute of Technology, Allahabad Allahabad, India**

Bachelor of Technology in Mechanical Engineering May 2014

**TECHNICAL SKILLS**

**AWS Analytics:** Redshift,EMR, SageMaker,Kinesis, Athena **Programming Languages:** Python, SQL, Java, Scala

**ETL Processing:** Glue, Hadoop, Spark, Kafka, S3, Spectrum **Relational Databases:** Amazon RDS, MySQL, PostgreSQL

**NoSQL databases:** DynamoDB, Neptune, Elasticsearch, DMS **Data Visualization:** QuickSight, Kibana, CloudWatch

**Compute:** EC2, ELB, Lambda, Kubernetes, Containers **Security:** IAM, SSO, Cognito, VPC, CloudTrail

**WORK EXPERIENCE**

**Amazon Web Services, Inc. Portland, USA**

**Data Engineer, Big Data Analytics July 2019 – present**

* Resolved more than 600 cases of production/quality environment issues in cloud infrastructure for AWS customers across Analytics services with customer rating of 5/5; this resulted in cost savings on customer end & consistent improvement in customer satisfaction
* Took ownership of several technical case escalations to assist AWS Service Teams and Account managers to meet immediate requirements of customers like administering cluster with 300+ TBs of data, reducing query execution time, etc.
* Replicated customer-end workload scenarios (e.g., automate ETL pipelines, debug code, eliminate bottlenecks, implement query optimization, etc.) to help customers in building & maintaining AWS architecture acc. to best practices resulting in AWS revenue growth
* **PROJECT 1: Contextual Advertising using Apache Hive and Amazon Elastic MapReduce (EMR)**
* Developed a job flow in EMR to process advertisement impression and click logs generated by EC2 servers and stored in S3
* Created EMR-Hive job to process S3 data, develop and test a model; model file uploaded to S3 & made accessible to Ad Servers
* Using Hive Queries, advertisements are ordered by a heuristic estimate of the chance of a click for contextual advertising
* **PROJECT 2: Unified serverless streaming ETL architecture with Kinesis Data Analytics (KDA), Amazon RDS, DMS & DynamoDB**
  + Event data sent to Kinesis data streams using data models in Amazon RDS for MySQL & AWS Database Migration Service
  + Processed 1000K order items enriched with order event data & product reference data in KDA app; output sent to DynamoDB
  + Observed average latency of 900ms from the time of event ingestion into kinesis pipeline to data records persisted in DynamoDB
* **PROJECT 3: Organize Amazon Redshift-Based ETL pipelines using serverless AWS Step Functions and Glue Python Shells jobs**
  + State machine launches Glue Python job tasks which move customer reviews dataset from S3 to Redshift tables via Spectrum layer
  + Jobs execute aggregation queries to group reviews by product & ordered by votes; results UNLOAD to S3 for further processing
  + Tasks contain error handling switch which, if caught, triggers SNS topic which forward error notifications to subscribers
* **PROJECT 4: Develop Data Warehouse Architecture and Reports for Retail Chain using SQL Server Management Studio**
* Created ETL workflows to process a data load of approx. 20GB and designed data warehouse architecture from scratch
* Developed reports and dashboards to answer business questions in detail; suggested pricing strategies to increase revenue

**Larsen and Toubro, Electrical & Automation Mumbai, India**

**Business Intelligence Engineer, IT Business Solutions July 2014 - May 2017**

* Designed analytical dashboards & visualizations to calculate *Overall Equipment Efficiency (OEE)* of 12 production machines in IOT project
* Product Owner of Plant Maintenance mobile application involving documentation of business requirements, development and end-to-end implementation; trained users to use mobile app decreasing *Mean Time to Repair (MTR)* of 12 production machines by 20%
* Build predictive and prescriptive analytics models to automate and optimize inventory process metrics; developed inventory forecasting strategies increasing inventory turnover by 6%

**LEADERSHIP SKILLS**

* Mentored team’s 4 new-hires in AWS Big Data & Analytics services using technical expertise and Amazon’s Leadership Principles
* Prepared article on Kinesis Streams architecture & got it published under AWS public website’s Training documentation