AKSHAY JAGTAP

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TECHNICAL SKILLS

Programming Skills: Scala, Java, Python, C++, C, Haskell, HTML, CSS, JavaScript

Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS)

Data Management Tools: Spark, Hive, Hadoop, ETL, BigQuery, MySQL, Kafka, Amazon Dynamo DB, Athena, S3, Redshift, ElastiCache

Other Tools: Apache Airflow, NiFi, Gcloud SDK, Jenkins, Docker, JIRA, Bitbucket, GitHub, IntelliJ IDEA, AWS CDK, AWS CodeDeploy

Methodologies: Big Data, RESTful, DevOps, Scaled Agile Framework (SAFe), Scrum, Agile, Object-Oriented Programming

EXPERIENCE

Senior Software Engineer, Walmart, Sunnyvale, California **Nov 2021 - Present**

- Own and manage the Customer Interactions dataset, a large-scale batch ETL pipeline built using Spark, Scala, Hadoop, Airflow providing key insights in customer impressions, behavior and purchase patterns
- Led the source migration for Interactions, making the pipeline more efficient - saving $100K per month in compute costs
- Leading the customer identification and linking across multiple sources (household ids, mobile ads, cookies) using third party data to enhance customer identification and traceability
- Migrated ETL pipelines from GCS Dataproc cluster jobs to auto-scalable Serverless Spark Batches reducing cost by 15%
- Integrated Walmart Bakery orders data from multiple sources such as SQL databases, Hive, BigQuery with Customer Transactions data to enrich customer PII data, and improve the customer identity graph
- Collaborated with external teams and partners to understand their use-cases and provided tailored data solutions
- Migrated big data ETL pipelines from Apache NiFi to Airflow to improve integration and reduced cloud costs by 25%
- Built metrics and data quality checks to identify potential issues in production based on historical data and trends
- Mentored new hires on team architecture and tech stack, and assisted team in troubleshooting business and prod issues

Software Development Engineer, Amazon Web Services (AWS), Seattle, Washington **Mar 2020 – Nov 2021**

- Worked on the AWS Commerce Platform team to provide custom-made pricing and billing models to customers
- Developed and maintained services to manage AWS customer billing data totaling to 25M rows and 8 GB size
- Built event-driven microservices and testing suites using Java, AWS Lambda, Step Functions, DynamoDB, SQS, SNS
- Developed RESTful APIs and optimized existing algorithms for vending customer billing data to internal services
- Engineered a service to identify threats and assess vulnerabilities in customer data for bill computation
- Implemented data backup, restoration and recovery strategies in events of data loss or data corruption
- Formulated system design to define service architecture, modules, interfaces and data to meet business requirements
- Applied best practices, such as utilizing multiple deployment environments, to preemptively detect potential issues

Software Engineer Intern, NetApp Inc. Boulder, Colorado **May 2019 - Aug 2019**

- Developed networking and clustering functionalities of the SolidFire product in Python using Bitbucket for version control
- Deployed features using Docker and integrated them into Jenkins CI/CD environment to reduce the build time by 73%
- Configured and administered vApps using vSphere Web Client to reuse resources which reduced testing time by 68%
- Spearheaded a team of engineers to deliver new features and fix urgent defects in the NetApp Storage Plugin using C#
- Implemented unit tests and integration tests for RESTful APIs using MagicMock class in the unittest framework

Software Development Engineer, Persistent Systems Ltd, Pune, India **Aug 2016 - Mar 2017**

- Worked in an Agile Scrum environment to develop a cloud trust-model in Java to determine the quality of a cloud system
- Presented and published a research paper in International Conference on Recent Trends in Engineering and Technology

EDUCATION

M.S. Computer Science, Syracuse University, Syracuse, NY | **GPA: 3.64/4.0** **Jan 2018 - Dec 2019**

B.E. Computer Engineering, Savitribai Phule Pune University, India | **First Class with Distinction** **Aug 2013 - May 2017**

ACADEMIC PROJECTS

Cross platform data mining to predict revenue for upcoming movies **Oct 2018 – Dec 2018**

- Used Python and R to pre-process and apply sentiment analysis on tweets and comments mined from Twitter and YouTube
- Implemented K-means clustering to classify a movie and formulate its revenue to achieve an accuracy of 93%

Comparing and analyzing prediction models for Google Analytics customer revenue prediction **Oct 2018 – Dec 2018**

- Created LightGBM, XGBoost and Catboost models in Python for predicting customer revenue based on Google Analytics data
- Performed exploratory data analysis, feature extraction and achieved a prediction accuracy of 96%