Aakash Gupta

Personal Info

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GitHub
https://github.com/aakashgupta96

Education

B.E Computer Engineering (2014-18)

NSIT, University Of Delhi

Percentage: 75.65%

Domain Skills

Data Structures

Analysis and Design of Algorithms

Object Oriented Programming

Big Data Processing

Database Management

UNIX Based Operating Systems

Programming Languages

C/C++	Java
Ruby	JavaScript
Python	Scala

Front End Technologies

ReactJS / Redux	HTML / CSS
Canvas	Kinetic JS

Back End Technologies

Spring Boot	Ruby on Rails
Spark	Kafka

Machine Learning

Keras, Scikit Learn Libraries

Supervised Learning Algorithms

Clustering Algorithms

Work Experience

Software Development Engineer at Walmart Labs
August 2018 - Present

▸ **Tech Lead of Change Data Capture pipeline** — November 2020 - Present
- Decoupled existing CDC pipelines in 2 modules for better control and reusability.
- Designed module to publish new changes from Mongo DB to Kafka topics.
- Implemented features to manage state and reprocessing capability.
- Designed module to persist Kafka messages in parquet format in Data-lake storage.
- Reused both the modules in 5 different domains to setup CDC pipelines.
- **Technologies Used**: Java, Spring Boot, Apache Kafka, Mongo DB.

▸ **Tech Lead of Cloud Migration project for Japan market** — March 2020 - Aug 2020
- Delivered MDM proxy services which gives info of Items and Suppliers of Walmart.
- Delivered 2-way data pipeline to keep data in sync of DB2 and Mongo DB for Receiving domain.
- Remodeled location service which gives data of Walmart stores. Reduced 2K Lines of code.
- **Technologies Used**: Java8, Spring Boot, Azure Event Hub (Kafka), Cosmos DB (Mongo API)

▸ **Developer in Finance Big Data Platform** — March 2020 - Present
- Contributed to designing and building finance data platform from scratch.
- Structured the storage layers in 3 tiers i.e., Raw, Transformed and Consumer Views.
- Developed a generic framework over Spark for writing data processing jobs.
- Integrated framework with centralized logging and key-vault.
- **Technologies Used**: Scala, Spark, Delta Lake, Azure Databricks.

▸ **Developer in US/CA Market Finance Data Services Project** — May 2019 – March 2020
- Contributed to DB design and sharding analysis of Azure Cosmos DB (Mongo API).
- Designed and implemented processing logic of ETL pipeline to migrate data from DB2 to MongoDB.
- Migrated data of approximately 3 billion records which is around 12TBs of data.
- Contributed to NRT pipeline to sync data in live data sources i.e., DB2 and MongoDB.
- Contributed to Hot-Warm storage implementation which **reduced cost by a factor of 80%**.
- Pinpointed various design flaws and provided solutions for same.
- Reported intermittent issue of Kafka Connect, and provided the fix for this issue.
- Standardized setup of GSLBs for High Availability and Disaster Recovery of backend services.
- **Technologies Used**: Java8, Spring Boot, Spring Batch, Spring Cloud Stream, Redis, MySQL, RabbitMQ, Kafka Connect, Kafka.

▸ **Full Stack Developer in APIE Project** — August 2018 – May 2019
- Developed paginated dashboard UI for searching and filtering data.
- Developed backend search and filter APIs for user dashboard.
- **Technologies Used**: Java8, Spring Boot, ReactJS, Redux for state management.

▸ **DevOps**
- Implemented E2E CI/CD pipeline and infrastructure setup for deployment of micro-services.
- Proposed optimal resource grouping for Azure Cloud and hence reduced operational cost.
- **Technologies Used**: Docker, Azure DevOps, OneOps, Looper (Jenkins), Concord (Orchestration Tool)

Lead Developer and Owner at Shuriken Live
December 2016 – March 2018

▸ **Features**
- Responsive Web-App for streaming live videos to social networking platforms.
- Streaming can be done on FB Live, YouTube Live, Twitch, Periscope and any other RTMP URLs.
- Flexibility to do live polls on Facebook on page, user profile or groups.
- Easy share feature to multiple groups and pages for promoting content and gain viewership.
- Live at: https://www.streamidea.com

▸ **Front End Technologies**: HTML/CSS, JavaScript, JQuery, KineticJS/Canvas, Material Design.

▸ **Back End Technologies**
- Integrated with Facebook APIs to start/stop/post live videos on users' behalf.
- Ruby on Rails as back end tech stack, FFMPEG for video streaming.
- Asynchronous Job Processing using Redis and Resque Gem.
- Selenium headless browser with ChromeDriver, XvFB and ALSA for video/audio capture.
- PostgreSQL, integrated payments with PAYPAL and Instamojo.

▸ **Deployment and Impact**
- AWS (Application and DB Servers) with Nginx as web server being used by 7000+ global users.
- Digital Ocean for video streaming worker servers, Sentry for error detection.
- Consumed by social media managers of political parties to handle FB Live and YouTube Live etc.