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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
<ul style="list-style-type: none"> Tech Lead of Change Data Capture pipeline <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> November 2020 - Present March 2020 - Aug 2020 March 2020 - Present May 2019 – March 2020 August 2018 – May 2019
Lead Developer and Owner at Shuriken Live	December 2016 – March 2018
<ul style="list-style-type: none"> Features <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. 	

Data Science Intern at CodingNinjas

March 2018 – July 2018

- ▶ Analyzed data of students' performance and their engagements throughout the course.
- ▶ Trained neural network with 77% accuracy to predict student's interest in joining another course.
- ▶ Integrated model with backend application to generate reports for marketing team.
- ▶ Created content for Machine Learning and Web Development courses.

Software Developer Intern at Walmart Labs

May 2017 – July 2017

- ▶ Developed suite for integration and functional testing for Optimizer 2.0
- ▶ **Technologies Used:** TestNG Framework, Jenkins for regression testing job.

Projects

Image Description Generator

April 2018

- ▶ Trained a deep neural network using RNNs to generate description of input image in English.
- ▶ Used Flickr8K dataset for training and used LSTM for maintaining state with context.
- ▶ **Technologies Used:** Python, Keras with TensorFlow Backend, Google Colab, RoR.

Article Classification Filter

February 2018

- ▶ Implemented article classification using Supervised ML Algorithm (Multinomial Naïve-Bayes).
- ▶ **GitHub URL:** <https://bit.ly/2tsy4Ka>

Image Editor Tool

January 2017

- ▶ Developed front-end tool that has features like resizing, drag-drop and overlaying of images.
- ▶ Implemented feature for overlaying images over video to add company specific logo before broadcasting.
- ▶ **Technologies Used:** HTML, JavaScript, Canvas/KineticJS.

Achievements

- ▶ Mentored team to win 3rd position in Smart India Hackathon, 2018 (SIH) organized by MHRD and received an award of 50K INR. Idea was to streamline loan management
- ▶ Won 3rd position in Walmart GTS GBS Hackathon, 2018. Idea was to use blockchain in procure to payment cycle.
- ▶ Among the final 15 teams in Spark 2 - ShopClues Hackathon 2017.