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| **Aakash Gupta**  Personal Info  Phone  +91 9210985811  E-mail  aakash.gupta96@outlook.com  LinkedIn  www.linkedin.com/in/aakashgupta96  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. |
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|  | **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. |
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