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ALABHYA FARKIYA

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Seeking Full-Time Software Engineering Positions

EDUCATION

Carnegie Mellon University (Pittsburgh, PA) August 2017
School of Computer Science, MSIT eBusiness Technology, GPA:3.86/4.00

University of Pune (India) June 2015
Bachelor's in Computer Engineering

SKILLS

Programming Languages : Java, Python
Cloud & Data mining: AWS, Azure, GCP, Hadoop, Map-Reduce, Redis, Spark, Samza, Kafka, Zeppelin, Jupyter, sklearn
Database: MySQL, HBase, MongoDB
Web: HTML, CSS, JSON, SEO, J2EE, JSP, XML
Operating Systems: Linux, Mac OS, Windows, Unix, Android SDK
Others: Git, Eclipse, Android Studio, Maven, JDBC, RDS, EMR, S3, Servlets, Multithreading, Big Data, pandas

PROFESSIONAL EXPERIENCE

Daily Doc (**Link**: https://play.google.com/store/apps/details?id=com.chronic.wellbing) Jun '15 - Jun '16
Software-Engineer (Full-time)

- Designed and implemented user-authentication, data logging workflows, chat application and user-profile management for the Android app team in an agile start-up environment.
- Optimized the Android app for the lazy propagation of data in case of a poor network.
- Improved the performance of Android app by 20% thereby reducing costly rendering of the UI.
- Was available at hand during new version releases and wrote technical specifications of the development process.
- Designed, developed and maintained JSON based api's for communication in the backend team.
- Conceptualized, designed, developed and deployed a fully functional Android app having more than 30,000 downloads. (**Link**: https://play.google.com/store/apps/details?id=com.troika.Aptitude)

PROJECTS

Twitter Analytics Web Service (**Learn more:** https://goo.gl/nCql9J) Mar '17 - May '17

- Implemented a web-service to extract tweets and users given trending topics, hashtags and a time frame.
- Designed and implemented a high performance, fault-tolerant and scalable cloud deployment strategy responding to live load while meeting infrastructure and budgetary needs.
- Performed ETL on a 1 TB dataset to load data into MySQL and HBase systems using MapReduce and Spark frameworks on Amazon Web Service(s), Google Cloud Platform, and Microsoft Azure.
- Hiked the performance of service from 3000RPS to 10,000RPS by modelling effective schemas, sharding the database and optimizing server threads while utilizing the same resources.
- Configured the service to handle data from all languages, including emoji's.
- Deployed the web service using Docker images on Kubernetes across multiple cloud service providers.

Stream Processing with Kafka and Samza Apr '17 - May '17

- Generated a stream of data using Kafka producer and made it available for a Samza consumer on AWS.
- Designed and implemented a solution for a driver matching service like Uber by joining and processing multiple streams of GPS data and driver data using the Samza API.

Social Network with Heterogeneous Cloud Backends Feb '17—Mar '17

- Modelled, populated and deployed both SQL and NoSQL databases in a social network web service context.
- Employed a graph database in HBase to enable searching for friends, a MongoDB database for comments, likes and user wall and a MySQL database using RDS for authentication on AWS.
- Implemented the recommendation engine by finding minimum distance between 2 people based on common friends.
- Extended a distributed key-value store with strong and eventually consistent replication schemes.

Predicting Truck Accidents with Machine Learning *(Idelic, Pittsburgh)* Jun '17 - Aug '17

- Cleaned, organized and analyzed truck driver data related to accidents, citations, speeding etc for the past 18 years.
- Engineered 47 features and converged them to 8 by analyzing performance of different models and expert knowledge.
- Experimented with different estimators from sklearn to perform supervised learning using Python (Jupyter) & pandas.
- Increased the performance of model by 20% by tuning parameters for gradient boosted trees.