SHUDDHATM JAIN (480) 295 1800

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WORK EXPERIENCE

Software Development Engineer, Amazon Web Services   Feb 2020 – Now
- Working on the backend which powers the newly launched Selling Partner APIs for the Amazon Sellers.
- Integration with multiple teams' deliverables and created APIs to power sellers to interact programmatically with sellers' product listings on Amazon.
- Architecting services on AWS using CDK, S3, Redis, Kinesis, DynamoDB, Event buses and SQS

Software Development Engineer Intern, Amazon Web Services   June 2019 – Aug 2019
- Worked on backend services for the Amazon Sellers Central to notify sellers with changes related to their products, which saved around $500m.
- Restructured the current system to process multiple notifications, also making it easier to add different types.
- The notification service was built using AWS services like Lambdas, Kinesis, DynamoDB, Event buses and SQS.

Database Intern, Cyr3con Cyber Reconnaissance, Tempe, AZ   Dec 2018 – May 2019
- Developed custom crawlers and parsers for automated data collection.
- Developed, monitored, and maintained consistent and non-duplicate data collection in their corresponding collections and S3 buckets by generating and adding new data pipeline jobs as per client requirements.
- Created customs scripts for data retrieval by APIs.
- Automated data processing cycle resulting in 20% savings in data storage and improving latency by 30%

Software Engineer, Myofficecab, Bangalore   Dec 2015 – Sept 2017
- Developed an Android Application for driving partners to manage and navigate trips, tracking expenses and earnings of the month used by 50 cab drivers i.e. a growth of 500% in 1 year
- Developed a Web Application to manage day-to-day operations, billing, vehicle tracking and multiple analytical reports, which was used to manage 600 users i.e. growth of 400%
- Derived an algorithm to help optimize trip routes for minimizing distance between two trips. This helped the company to scale from 300 trips/month to 7000 trips/month.

SKILLS

- **Programming Languages:** Java, JavaScript, Python, SQL, C, C++
- **Database:** MySQL, SQLite, MongoDB, DynamoDB, Postgresql, Redis
- **Tools/Libraries:** Guice, Spring boot, J2EE, S3, Lambda, Kinesis, SQS, Elasticache, Tomcat, Git, Mockito, JQuery, Junit and Powermock frameworks.

EDUCATIONAL QUALIFICATIONS

Master of Science in Computer Science, Arizona State University - Tempe   Jan 2018 – Dec 2019
Relevant Courses: Database Management System Implementation, Multimedia & Web Databases, Data Mining, Distributed Database Systems, Applied Cryptography, Adaptive Web, Natural Language Processing, Machine Learning

Bachelor of Engineering in Computer Science, RGPV University - India   Aug 2011 - May 2015
Relevant Courses: Data Structures and Algorithms, Principles of programming Language, Theory of Computation, Software Engineering and Project Management

PROJECTS

- Developed a system which uses Machine Learning technologies like SVM, LDA, PCA and Tensor Decomposition for finding similarity on unstructured data. Also implemented LSH, KNN and PPR algorithms.
- Developed a user activity tracking system on Stack Overflow to adaptively recommend the topics from the books over the questions asked. Profiling the user on the actions performed by the user and creating multiple visualizations to compare with the user's own actions or with other users.
- Implemented a column-oriented database over the Java Minibase Engine with multiple indexing schemes such as bitmap and clustered index for fast and efficient data retrieval.
- Implemented algorithms for human gesture recognition using provided test data and used it to recognise different gestures for 40 people. Extraction of features was done using FFT, PCA, Standard division. Then gesture classification was implemented and compared on accuracy, using concepts of Decision Tree, Neural network and Support Vector Machines.