SWAROOP ARADHYA

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Education

MS in Software Engineering **Fall 2015 - Spring 2017(Expected)**
San Jose State University | San Jose, CA
Coursework: Cloud Technologies, Enterprise Distributed Systems, Web UI Design, and Big Data

B.E. Computer Science **August 2011 - June 2015**
Bangalore Institute of Technology | Bangalore, India

Employment

DevOps Intern **Verint Systems, Santa Clara** **January 2017 - Present**

- Supporting the CI/CD team to enable the build infrastructure using Jenkins, Git and Gradle stack
- Implementing and maintaining Jenkins pipeline for integration and release streams related to Verint WFO platform
- Designing Jenkins 2.0 pipeline using Groovy DSL to automate tasks on hotfix management

Software Intern **Willron Technologies, Bangalore** **February 2015 - May 2015**

- Designed Web UI using HTML and jQuery for a cloud project which involved portal for users and admin to manage files
- Implemented backend system for web based insurance premium calculator application using Java and Oracle 10g database
- Gained experience during undergraduate final semester working with startup team on all stages of SDLC

Projects

Cloud Scale Bitly Like URL Shortener **Node.js | RabbitMQ | MySQL | Redis | AWS Beanstalk**

- Developed Heroku based web application to submit long URL's and display its trend statistics
- Used CRC-32 for hashing, deployed Node.js shortener and redirect servers with load balancing on Amazon beanstalk instances
- Utilized RabbitMQ for message queuing, MySQL as main database and Redis cache for faster redirection

Box Office Success Predictor (Ongoing Master's Project) **Spark | HDFS | MongoDB | D3.js | Angular.js**

- Developing a spark based application to predict the success of upcoming movies using movie datasets and social media data
- Currently working on preprocessing collected datasets, implementing spark processing framework to apply mining algorithms
- Utilizing Angular.js, D3.js to design UI dashboard and MongoDB to store result dataset

Interest book **Node.js | Angular.js | MongoDB | RabbitMQ | AWS EC2**

- Developed social networking application to share interests using MEAN stack and hosted on Amazon EC2 instances
- Used RabbitMQ as messaging broker between client and server, MongoDB for database and storage of sessions
- Involved user functionalities such as signup, about, homepage, search and add friend features

Food Rescue – Opportunity Hack 2016 **Android Application | MongoDB**

- Developed an android application to connect restaurant owners to deliver excess food to nearby needy people
- Implemented backend web services using Java REST API and MongoDB database, text messaging using Twilio and ngrok

NexRad **Spark | DashDB | AWS S3**

- Developed mini spark application to study weather data and find higher rain and precipitation regions in California region
- Utilized AWS S3 to store NOAA radar dataset, dashDB for storing SparkSQL results and Tableau for visualization

Automated Malaria Parasite Detection (Undergraduate Project) **Image Processing | MATLAB**

- Detected the count of malaria infected RBC cells in digitalized blood smears using Image Processing techniques
- Used color and diameter of the cell as parameter to apply transformations and distinguish infected cells from normal RBC cells
- Sponsored by KSCST, India under 38th Series SPP 2015. Published technical paper under IJRTS Volume 3, Issue 2, January 2016

Technical Skills

- **Programming:** Java, JavaScript, C, Python
- **Web Technologies**: Node.js, Angular.js, jQuery, HTML5, CSS3, Bootstrap
- **Tools**: AWS, Docker, Hadoop MapReduce, Jenkins, Git, Gradle, RabbitMQ, MongoDB, MySQL