

# SWAROOP ARADHYA

(669)264-8442

[mcswaroop.19@gmail.com](mailto:mcswaroop.19@gmail.com)

[github.com/swaroopmc](https://github.com/swaroopmc)  
[linkedin.com/in/mcswaroop19](https://linkedin.com/in/mcswaroop19)

Available to work full-time starting June 2017

## Education

### MS in Software Engineering

Fall 2015 - Spring 2017(Expected)

San Jose State University | San Jose, CA

Coursework: Cloud Technologies, Enterprise Distributed Systems, Cloud Services with Docker, 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, Groovy, Git and Gradle stack
- Implementing and maintaining Jenkins pipeline for integration and release streams related to Verint WFO platform
- Designing Jenkins 2 pipeline as a code using Groovy DSL to automate tasks on sustaining and 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 | Python | D3.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 | Java REST API | 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 38<sup>th</sup> 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
- **Tools:** AWS, Docker, Hadoop MapReduce, Jenkins, Selenium, Git, Gradle, RabbitMQ, MongoDB, MySQL