

SHREYAS GOVINDA RAJU

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EDUCATION

MAY 2018 **University of Southern California**, Los Angeles
M.S, Computer Science
Coursework : Machine Learning, Applied Natural Language Processing, Artificial Intelligence, Operating Systems, Databases and Algorithms.

MAY 2015 **National Institute of Technology Karnataka**, India
B.Tech, Computer Science and Engineering

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Javascript, and Shell Scripting.
Web Frameworks: Node.js, Bootstrap, Webapp2, Django, Flask, and Prototype.
Applications: MySQL, AWS SageMaker, Elastic Beanstalk, EC2, Azure HDInsight, Docker, Apache Storm, Apache Hadoop, MapReduce, Kafka, Jenkins, Redis, and d3.js.

WORK EXPERIENCE

JAN 2018 - PRESENT	Software Development Intern, Mathworks (Natick, Massachusetts) <ul style="list-style-type: none">- Developed a code signing tool to digitally sign executables of Mathworks product Installers.- Integrated the script as a part of build process in Release Cycle.- Developed scripts to categorize build times and produce and interactive visualizations.
Tech stack	Perl, d3.js, PHP
MAY 2017 - AUG 2017	Software Development Intern, Tintri (Mountain View, California) <ul style="list-style-type: none">- Built a tool to highlight known fingerprint failures from Tintri platform test result suites.- Analyzed different log files after filtering them using known patterns and time frame models.- Developed an end to end web application to accommodate easy analysis and reporting of bugs.
Tech stack	Python, Django, Bootstrap, JQuery
JUNE 2015 - JULY 2016	Software Engineer, Samsung Research Institute Bangalore (Bangalore, India) <ul style="list-style-type: none">- Developed I/O modules in C++ on an automated caching software tool called Autocache.- Created a web interface for the Autocache stand-alone application with prototype framework.- Discussed implementation plan for flushing cached data into secondary storage drives.- Led the setup of debugging environment for kernel debugging in RHEL.
Tech stack	C++, Jenkins, Visual Studio, Git

PROJECTS

- **Document Classifier**
 - Built a document classifier using Naive Bayes and SVM algorithm from python scikit library.
 - Trained the model and deployed on Amazon SageMaker ML instance clusters.
 - Utilized python boto3 SDK in flask application to connect to SageMaker model endpoint for prediction results.
 - Deployed the web application on AWS Elastic Beanstalk.
- **Gutenberg Project**
 - Analyzed largest open collection of ebooks data on Apache Spark cluster launched on Amazon EC2.
 - Produced a catalog index file from the querying metadata of ebooks using Python RDFLib .
 - Implemented a SparkContext to read data from AWS S3 and execute queries and rdd transformations.
 - Developed a spark app to obtain gender pronoun counts from the text in the data set.
- **Real Time Analytics**
 - Developed a real-time, distributed data processing application for Twitter tweets.
 - Implemented topology linking Spouts and Bolts in Apache Storm to evaluate top Trending Twitter feeds.
 - Developed a python script to parse and visualize Top-N Hashtags from Twitter URLs.
 - Created a real-time visualization using Redis, flask server and d3.js.
- **Slack Bot**
 - Developed a resilient, micro-service based natural language aware bot for Slack app.
 - Integrated NLP API wit.ai, to invoke updated query parameters based on application.
 - Implemented geocoding and time calculations and also monitoring services.