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 - May 2018 — **Software Development Intern**, **Mathworks** (Natick, Massachusetts)
- Developed a code signing tool to digitally sign executables of Mathworks product Installers.
- Integrated the script as a part of the build process in Release Cycle.
- Developed scripts to categorize build times and produce interactive visualizations.

Tech stack: **Perl, d3.js, PHP**

May 2017 - Aug 2017 — **Software Development Intern**, **Tintri** (Mountain View, California)
- 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)
- 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 by 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.