Supriya Anand

http://www.github.com/supriyaanand, http://supriyaanand.github.io

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Experience

Jan 2016 –
Present

Graduate Associate, *Office of Institutional Research, USC*, Los Angeles, CA.
- Designed and developed a text analysis framework for course evaluations with features to determine sentiment, auto summarize student responses across classes and extract relevant feedback across topics via topic modelling
- Developed tools to automate ETL tasks
- Optimized stored procedures and user defined functions to facilitate reporting

June 2016 –
August 2016

Software Development Engineer Intern, *Zillow*, Irvine, CA.
- Designed and developed a microservices architecture based image processing application that runs in a distributed environment interfacing via RabbitMq as a message broker
- Incorporated multiple features into an application that is responsible for acquiring and managing large volumes of data powering Zillow's listings
- Designed and implemented a POC for an application that auto extracts housing related info from documents subject to Optical Character Recognition

Feb 2015 –
June 2015

Associate Software Developer, *Grasshopper via MavenHive Technologies*, Bangalore.
- Full stack web development for the Grasshopper cloud telephony service on the Rails stack with an AngularJS frontend
- Designed and implemented a POC for an in-house CRM product to serve as a single data store hosting data from third party services such as Zendesk and Chargify
- Implemented RESTful APIs required to aggregate data for the CRM product from existing components

July 2013 –
Sept 2014

Software Development Engineer in Test, *Akamai Technologies*, Bangalore.
- Designed and developed test frameworks, tools to automate component level testing and integration with the Akamai HD Automation framework ; test plans to validate key features of products across both Live and Video-on-Demand Media Delivery solutions
- Incorporated a code coverage metrics module into the test framework to identify and target un-tested code which resulted in code coverage moving up by around 10% each across three of Akamai's streaming components

Technical Skills & Interests

Programming Python, Java, C#, C/C++, Ruby, Javascript
Databases PostgreSQL, SQL Server
Web Dev HTML, CSS, jQuery, Ruby on Rails, AngularJS, Bootstrap
Others NLTK, Pandas, Hadoop, Solr, LaTeX
OS Windows & Linux system administraton

Education

Fall 2015 -
June 2013

Masters in Computer Science, *University of Southern California*, Los Angeles, *3.5/4*.
BE in Information Science, *B. M. S. College of Engineering*, Bangalore, *9.37/10*.

Relevant courses

Fall 2016 Applied Natural Language Processing, Information Integration on the Web
Spring 2016 Foundations of Artificial Intelligence, Information Retrieval and Web Search Engines
Fall 2015 Analysis of Algorithms, Web Technologies
BMSCE Algorithms, Advanced Data Structures, Operating Systems, Networks, Databases, Object Oriented Modelling and Design

Select Projects

Mar 2016 **SearchSpace**, *[Java, Crawler4j, Solr]*, [Academic Project].
Vertical search engine built using Crawler4j and Solr with customizable search result ranking strategies

Feb 2016 **AI Game Playing Agent**, *[Python]*, [Academic Project].
AI game playing agent that uses Adversarial search techniques Minimax, Minimax with Alpha Beta Pruning and Greedy Best First Search to play a version of the classic Othello game

Jan 2016 **Evaluation of sentiment analysis techniques**, *[Python, NLTK, Scikit-Learn]*, [Independent Project].
Evaluation of Accuracy, Precision and Recall of sentiment analysis systems built using a wide range of classifiers including Logistic Regression, Maximum Entropy, Random Forests and Support Vector Machines