

Supriya Anand

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

+1 310-948-4156
supriya.anandrao@gmail.com

Experience

- Jan 2016 – **Graduate Research Associate**, *Office of Institutional Research, USC*, Los Angeles, CA.
 - Present – 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 – **Software Development Engineer Intern**, *Zillow*, Irvine, CA.
- August 2016 – 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 – **Associate Software Developer**, *Grasshopper via MavenHive Technologies*, Bangalore.
- June 2015 – 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 – **Software Development Engineer in Test**, *Akamai Technologies*, Bangalore.
- Sept 2014 – 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, RabbitMQ, Hadoop, Solr, L ^A T _E X
OS	Windows & Linux system administration

Education

- Fall 2015 - **Masters in Computer Science**, *University of Southern California*, Los Angeles, 3.5/4.
- June 2013 **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