Vijay Teja Gottipati

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EDUCATION

Stony Brook University, New York, U. S. A. **Dec 2016**
Master of Science in Computer Science *GPA: 3.58/4*
P. E. S. Institute of Technology, Bangalore, India **2014**
Bachelor of Engineering in Computer Science

TECHNICAL SKILLS

Languages: Proficient in C, C++, Python. Familiar with Java, Typescript, JavaScript *Platforms:* UNIX, Windows, Android

PROFESSIONAL EXPERIENCE

- ***Software Development Intern, Microsoft, Redmond, U. S. A.*** (May 2016 – Aug 2016)

-- Developed an accessible, reactive, and reusable pane component using React framework for a product currently covered under NDA. *Typescript, React, HTML, CSS*
-- Implemented various UI controls, data stores and action creators to fully conform to the unidirectional Flux data model.
-- Wrote DAMP unit tests with high code coverage for all the implemented components. *Chai, Mocha, Sinon*

- ***Associate Software Engineer, Commvault Systems, India*** (July 2014 - May 2015)

-- Designed and implemented a Webex backup component from ground up, that smartly migrates Webex recordings from the cloud and integrates them into the internal Simpana framework. *C++, Python*
-- Closely interacted with NTFS internals for the development of Windows file system backup component.

- ***Software Development Intern, Commvault Systems, India*** (January - May 2014)

-- Developed an intelligent thread work assigner for the file system backup component that minimizes disk thrashing and thereby increases the overall backup throughput. *C++*
-- Chosen as the "*Best performer*" during induction program post internship.

SELECT PROJECTS

- ***Software-Defined Networking (SDN) application for optimizing Data Center Networks*** (May 2014)

-- Developed an SDN app that significantly increased the operational efficiency, in terms of latency, infrastructure utilization, and configuration overheads, of large Ethernet DC networks by deploying hierarchical pseudo MAC addresses to act as positional locators within the DC. *Python*
-- Selected for poster presentation at IEEE International Conference on *Cloud Computing for Emerging Markets.*
-- Was featured in the *top 5* networking projects in under graduation.

- ***Subreddit recommender for Reddit posts*** (Dec 2015)

Recommender that, given the content of a post, suggests the subreddit with best audience - best as defined by the number of net votes the post is likely to receive. Used stemming and tf-idf for generating bag-of-words features and used K-means clustering and Naïve Bayes classifier as part of 2-stage pipeline for recommendation. *Python*

- ***Context aware Android application, Trigger*** (June 2013)

-- Designed and developed an Android app that enabled Android devices to detect and communicate with each other and make smart decisions based upon the information they exchange. E.g.: Sync music. *Java, Android*
-- Won the *first prize* from over 90+ submissions in Intel's CCF contest.

- ***Discovering new treatments by mining UMLS Knowledge Base*** (Dec 2015)

Developed an application to discover latent beneficial & harmful relations between drugs and diseases in UMLS medical KB. Used Subgraph Feature Extraction algorithm to extract several types of path features and train a L2 regularized logistic regression classifier to classify possible latent links. *Python*

RESEARCH EXPERIENCE

- ***Graduate Student Researcher at NLP Lab, Stony Brook University*** (Jan 2016 - Present)

-- Working on an Integratively Complex Text Composer (ICTC) that takes as input, articles containing multiple points of view, and generates a cohesive integrative text article that incorporates the multiple viewpoints.
-- Extracted tweets on several topics and automatically annotated them with help of their hash tags. Used LDA and tf-idf as similarity measures for tweets and trained a Sequence to Sequence LSTM model for phrase generation. *Tensorflow, Python*

- ***Intern at Indian Statistical Institute, Chennai, India*** (June - August 2012)

Tested the hypothesis that, in lesser ranked conferences, authors spuriously cite publications of members in the conference's Program Chair to appease them. Used PDF tools, ParsCit, and a hand-written Python parser to aid in the analysis of spurious citations. *Python*

CO-CURRICULAR ACTIVITIES

- Finalist in Code Wars – a coding event at AtmaTrisha, PES Institute of Technology, Bangalore. (January 2013)
- Network organizer at Ayana, a Hackathon at PES Institute of Technology, Bangalore. (April 2013, 2014)