

TEJASVI RAVI

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EDUCATION

Bachelor of Engineering, Computer Science, CGPA 9.11/10.00 Sep 2011 - May 2015
PES Institute of Technology, Bangalore, India

Higher Secondary Education, 91.4% June 2009 - May 2011
Delhi Public School, Bangalore South, India

WORK EXPERIENCE

Member of Technical Staff 2 July 2015 - present
Core Storage, VMware RnD, India

- Design and develop software for vCenter to manage distributed storage and filesystems like NFS, VMFS, VVOL and vSAN
- Prototyped and demonstrated container management on multi-cloud
- Researching on providing a policy framework for all VMware services

Founder member and Product Developer June 2014 - Oct 2014
TagAlong - MIT Global Startups Lab (GSL)

- The application provided dynamic public transport sharing
- We were incubated at MIT GSL
- Designed and developed Android application and the middleware

Student Developer, Google Summer of Code 2013 and 2014
<https://github.com/sanity/tahrir>

- Worked for Freenet Org., on Tahrir, which provides decentralized and distributed platform for micro blogging, incorporating mix network to protect privacy and avoid censorship
- Developed code for user profiles, built communication mechanisms for users, recoded microblog structure, and tested the prototypes on AWS instances

Co-Founder, Secretary Aug 2013 – Nov 2014
PES Entrepreneurship Cell

- Founded the E-Cell to spread awareness on entrepreneurship and help fellow entrepreneurs at PESIT
- Successfully organized annual Entrepreneurship flagship event, having over 200 participants

AWARDS AND HONORS

- Best New College Graduate Project in VMware Bootcamp – Supported Kubernetes on vCloudAir
- Best Market Potential Project in Borathon (VMware RnD internal hackathon) 2016 – Container lifecycle management and migration support in multi-cloud
- Undergraduate capstone project awarded best project under “Technology impact” category during the college’s annual tech fair in January 2016
- One of the 11 teams in the World, selected to demonstrate a mobile app for Rio Olympics 2016 by ATOS
- First class with distinction award for every semester during my engineering undergrad in PESIT
- Awarded CBSE scholarship for excellence in Mathematics during Higher Secondary Education

RESEARCH EXPERIENCE

Quality of Service on Greenplum database (Capstone Project) Jan 2015 - May 2015
Centre for Cloud Computing and Big Data Lab, PES Institute of Technology

- This project aimed to improve the quality of service of Greenplum database. Introduced the concept of prioritized users and scheduled the system resources on a need basis
- Created multi-node cloud infrastructure and deployed the distributed database on it
- Wrote modules to co-relate user profiles to underlying background processes and managed allocation of system side resources
- Achieved an **80% decrease** in response time for high priority users and a **10% decrease** in response time for lower priority users

MIT Media Lab Design Innovation Workshop
Mumbai

Dec 2014

- Researched and developed a device which created music out of art
- Objects drawn by children would be auto detected by our code and be associated with appropriate sounds

Intent extraction of an individual from cell phone data

Aug 2013 - Dec 2013

Centre for Cloud Computing and Big Data Lab, PES Institute of Technology

- The objective was to predict the intent of the user by analyzing the data obtained from the user's phone. This intent was then to be used to provide contextual ads and information to the user
- Formulated an approach that takes current time, location, weather, application activities of users as input, compares them with similar patterns seen before and outputs the predicted intent. This was presented to the Nokia's Mobile Apps division representatives

IBM Pure Systems

Feb 2013

- Created a 2 tier pattern for e-commerce solutions from an existing single tier virtual system pattern
- With the aid of IBM Pure Systems environment, showcased the use of patterns for quick deployment of end to end e-commerce solutions

ACADEMIC PROJECTS

Customer Service Representative Bot

Dec 2014

- Built a Natural Language based Customer Service Representative Bot as part of NLP course
- Performed Named Entity Recognition on input sentences, performed Relationship Extraction and used Natural Language Generation to generate responses for the bot
- The system my team developed performed among the **best in our class** with a precision of 65% and a recall of 71% against the test set

Plagiarism Detector for C code

Dec 2014

- As part of Software Engineering course, led a 15-member team to deliver a complete software product to detect plagiarism in code found in assignments
- Designed and developed methods to detect plagiarism and built the web frontend

Three address code generator

Nov 2013

- As a part of the Compiler design course, generated three address code for looping constructs of C language
- I wrote modules to generate the address codes for embedded loops

Transliterator

April 2013

- Developed as a part of the Analysis and Design of Algorithms course, this software converts a text from one language to its equivalent in another language without altering the context
- Designed and implemented the algorithm to auto detect language of the input text

PUBLICATIONS AND PATENTS

- Wrote paper in the domain of using software to empower rural employment, which was accepted at National Conference on Management and Technology for Skill Development: Innovative Approaches 2014 in India
- Patent under review at VMware, docket number D444.ID. This patent in the domain of risk detection and remedy in VMs with the help of system variables like memory, processor resource and network usage
- Currently working on two papers i.e. One, focusing on improving performance and efficiency of distributed systems running VMware's services on ESXi hosts; the other, on predicting failures in a virtual infrastructure by analyzing the system logs
- Attended 5th South Asia Workshop on Research Frontiers in Computing at National University of Singapore (NUS). I was provided complete financial funding by NUS

SKILLS

Java, C, Python, Web 3.0, Linux, Shell programming, Matlab, C#, PowerCLI, Octave, Android, Kubernetes

EXTRA CURRICULAR ACTIVITIES

- Responsible for organizing hackathons and entrepreneurship fests at PESIT
- Teaching English to 4th grade kids in local government school since a year
- Regular participant in hackathons and technical meetups
- Trained Bharatanatyam Dancer and Mrudangam artist