Vishal Vishal | Curriculum Vitae

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Profile Summary

- Total 4 years of experience in software development using C, C++, Java and Python.
- 1.5 years work experience as a research assistant for developing tool using natural language text processing in Java and Python.
- 1 year work experience as test automation engineer at Deutsche Telekom using a Appium and Robotium.
- Experience with Natural Language Techniques using NLTK, Word2Vec, LSA, LSI, POS etc.
- Experienced user of project management tools like Redmine and GitHub,
- Experienced with version control management systems like Git, SVN, Synergy.
- Working knowledge of Hadoop ecosystem(HDFS, MapReduce, Hive, MapReduce, HBase).
- Strong Analytical, Interpersonal, Troubleshooting and Communication Skills.
- Fluent in English, strategic thinker, self-starter and an excellent team-player;

Education

Masters of Science

 $Distributed\ Software\ Systems,\ Technical\ University\ Darmstadt, Darmstadt (Germany)$

2013-2015

Bachelor of Technology

Computer Science and Engineering, Kurukshetra University, Kurukshetra (India)

2005-2009

Masters Thesis

Title: Storytelling: Finding the coherence between large set of documents

Description: This thesis explored the domain of **Text Mining** and **Natural Language Processing** to find the most coherent news articles from a large set of NewYork Times corpus.Impelementaion of this thesis is done in **R** and **python**. Apache **Solr** server is setup and queried for accessing the dataset.

Packages used :

Python(nltk, math, os, string, numpy, pulp,time, pysolr, urllib2, json,sklear,scipy) **R**(bibmemory, tm,tmcn,g2gplot)

Technical Skills

Programming Languages: C,C++,Java, Python,R,SQL **Technology**: NLP,Hadoop MepReduce,HBase,Hive,HBase

OS Platforms: Linux, Android, Microsoft Windows

Automation Framework: Sikuli, Robotium, Appium

IDEs: Visual Studio, Eclipse, RStudio

Experience

Fraunhofer SIT **Darmstadt**

Junior Researcher(Student)

Aug-2015-Present

Exploring the area of software obfuscation specifically for Java, JavaScript and python.

o Implementation of new obfuscator(Java) by combining existing obfuscators and their performance evaluation.

Deutsche Telekom Darmstadt

Software Test Engineer(Student)

Aug-2014–Aug 2015

 Indulge in development of Model based based(using PyModel) test suit framework for mobile hand-held devices like e-reader, tablets and mobile phones using Sikuli framework.

- Writing test cases using Roboitum and Appium interface.
- o Indulge in manual testing and reporting bugs on RedMine for android application and e-reader devices

Technical University Darmstadt

Darmstadt

Junior Reasearch Assistant(Student)

Aug-2014-Aug 2015

o Understanding and application of supervised and unsupervised learning techniques using semantic analysis to develop an algorithm for finding a coherent set of documents.

- Defining the clustering technique for initial filtering of documents from a large corpus(New YorkTimes data-set).
- Implementing existing approaches and real user evaluation.
- Enhancement of existing algorithm using **NLP** techniques.
- Understanding the Hadoop ecosystem and setting up Hadoop clusters for distributed processing and generating Map Reduce task for students.

Samsung Bangalore (India) Aug-2012-Sep2013

Lead Engineer

- o Real Time WiFi Traffic Generator
 - Understanding and identifying the various traffic modelling parameters for different type of traffic.
 - Involved in research and scope estimation of the project.
 - Responsible for parsing algorithm development for raw packets flowing on the networks in C and Java
 - Responsible for network level communication algorithm for different traffic using sockets library
 - Implementing the different traffic models for different parameter.
 - Unit and functional testing of the modules
- Test tool development for SIPC conformance
 - Understanding the API to interacting with application processor an the communication processor.
 - Understanding proprietary protocols for Samsung inter-process communication.
 - Scripting test cases using JUnit.

Sasken Telecommunication Pvt. Ltd.

Bangalore (India)

Software Engineer

Mar-2010-Aug-2012

- Windows Multimedia (Video)
 - To perform the unit testing for the fixes.
 - To perform the real time debugging using windows debugger and analysing the logs and finding the root cause for the issue.
 - Development and integration of algorithms to improve the decode times for frames(MPEG-4,H264) in C++.
 - Handled issues in video decoder module in windows Media Foundation framework using C++.
- o Audio DSP subsystem on mobile platform Sustenance and Maintenance
 - Performing Root Cause Analysis (RCA) by analysing the logs obtained during real time use case and fixing the errors raised by various teams during different stages of **SDLC**.
 - Responsible for fixing issues in Audio-Data(amr,mp3,3gp) Processing module in DSP application sofware written in **C**.
 - Involved test automation using Nokia testing tool ATS3 and AT Commands.
 - Responsible for writing automation scripts in **python** of Nokia head phones.
 - Involved in Agile methodology (Scrum).
 - Involved in documentation of the call flow and design requirements of automated test tools

Languages

Hindi: Mothertongue

English: Fluent

Deutsch: Basic Aquiring Level A2

Awards and Presentations

2011: Best Employee award of the quarter

2014: Paper presentation at GI Informatik Tag at HPI, Postdam, Germany

Extracurricular Activities

2014-15: President: Darmastadt Indian Association, Damstadt, Germany

2015-16: Member of advisory committee, Darmastadt Indian Association, Damstadt, Germany