

PERSONAL INFORMATION

Vishal Vishal

📍 Bahnhofstrasse 21, 64367 Mühltal (Germany)

☎ +491624228345

✉ vishal266@yahoo.co.in

💬 Skype vishalaries888

Sex Male | Date of birth 24/03/1988 | Nationality Indian

POSITION

Software Engineer

WORK EXPERIENCE

10/08/2015–Present

Junior Researcher

Fraunhofer SIT, Darmstadt (Germany)

- Exploring the area of software obfuscation.
- Finding new techniques for more secure obfuscation and their performance evaluation.
- Applying these techniques on cloud software.

01/12/2013–31/03/2015

Junior Research Assistant

Technical University Darmstadt, Darmstadt (Germany)

- 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 York Times data-set).
- Implementing existing approaches and real user evaluation.
- Enhancement of existing algorithm using NLP techniques.

25/09/2014–24/08/2015

Student Assistant

Deutsche Telekom, Darmstadt (Germany)

- Indulge in development of Model based based(using PyModel) test suit framework for mobile handheld devices like e-reader, tablets and mobile phones using Sikuli framework.
- Writing test cases using Roboium and Appium interface.
- Indulge in manual testing for android application and e-reader devices.

01/10/2012–25/09/2013

Lead Engineer

Samsung R&D Institute, Bangalore (India)

■ **Real Time WIFI Traffic Generator**

- Understanding and identifying the various traffic modeling 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
- Working on filing a patent for the design idea of the generator.
- Responsible for network level communication algorithm for different traffic.
- 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 Samsung the protocols for Samsung inter-process communication.
- Designing the UI and the backend for interacting with AP and CP
- Development of test suit using java
- Scripting test cases using JUnit.

08/03/2010–25/08/2012

### Software Engineer

Sasken Telecommunication Pvt Ltd., Bangalore (India)

#### ■ **Windows Multimedia (Video)**

- To perform the unit testing for the fixes.
- To perform the real time debugging using windows debugger and analyzing 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 ).
- Responsible for technical analysis of assigned errors fixed /routed in Video module for windows phone

#### ■ **Audio DSP subsystem on mobile platform - Sustenance and Maintenance**

- Performing Root Cause Analysis (RCA) by analyzing the logs obtained during real time use case and fixing the errors raised by various teams during different stages of productization process.
- Responsible for technical analysis of assigned errors fixed /routed in Audio-Data(amr,mp3,3gp) Processing module.
- Involved Testing tool development and automated testing by using Nokia testing tool ATS3 and AT Commands.
- Involved Testing scripts development of Nokia head phones.
- Involved in Agile methodology (Scrum).
- Involved in performance testing of Audio Quality on mobile handsets.
- Involved in documentation of the call flow and design requirements of automated test tools

## EDUCATION AND TRAINING

01/10/2013–Present

### Master of Science : Distributed Software Systems

Technical University Darmstadt, Darmstadt (Germany)

- Mobile Sensing
- Distributed Software Systems
- Software Defined Networking
- Software Project Management
- Operating Systems
- Network Security
- Peer to Peer Networks

- Software Engineering Design Principles

01/04/2005–31/07/2009

**Bachelor of Technology**

Kurukshetra University, Kurukshetra (India)

- Computer Science
- Digital Electronics
- Cloud Computing
- Network Security
- Software Development
- Embedded Systems
- Machine Learning
- Artificial Intelligence
- Real Time Operating Systems

**PERSONAL SKILLS**

Mother tongue(s) Hindi

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
IELTS					
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

**Communication skills**

- Excellent communication skills gained through my interaction with abroad clients(Ireland,US, South Korea)
- International exposure acquired while traveling onsite(South Korea)

**Organisational / managerial skills**

- Management skills gained as a Lead Engineer and handled a team of 5.

**Job-related skills**

- Research
- Development
- Testing(Automation and Manual)

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Digital competences - Self-assessment grid

- **Languages** : C, C++, Java(core), Python,R
- **OS Platforms** : Android, WinCE, Linux, Windows.
- **Automation Framework** : Sikuli, Robotium,Appium

- **Technology** : Natural Language Processing, Corpus Statistics, Data Visualization.

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#### ADDITIONAL INFORMATION

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**Publications** StoryTelling : Connecting the news Articles(2014) at Informatiktag "Big data is beautiful"