

Rahul Middha

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Education

MASTER OF SCIENCE | 2015 - 2017 | THE UNIVERSITY OF TEXAS AT ARLINGTON

- **Major:** Computer Science

BACHELOR OF ENGINEERING | 2010 - 2014 | VISVESVARAYA TECHNOLOGICAL UNIVERSITY, INDIA

- **Major:** Information Science and Engineering

Publications

Middha, R, Arjun A, Mullapudi AK, Ebert D, Phadnis N. *HTKS Game for executive functions disorder using NAO Robot*. PETRA '16 Proceedings of the 9th ACM International Conference on Pervasive Technologies Related to Assistive Environments.

Technical Skills

Programming Languages: Java, C++, Python, C#

Web Development: PHP, JavaScript, AngularJS, Node.js

Databases: MySQL, Oracle, PostgreSQL, MongoDB, AWS RDS, IBM Cloudant

Cloud /Big Data/SVCs: Git, AWS EC2, ECS, Hadoop

Projects

Big Data on AWS: Map Reduce, Clustering and Visualisation

(AWS EC2|S3|RDS, Hadoop, Linux, Python Flask, HTML)

- Developed a web application to analyse Big Data using Amazon EC2 instance where users can upload datasets to Amazon S3.
- Performed Map-reduce jobs using Hadoop and used k-means clustering to cluster the results based on user's choice. Displayed the results in the form of scatter charts.

Sonarlint API for TOIF Open Source Framework

(Java, XML, TOIF)

- Built an adapter to integrate TOIF with Sonarlint tool for static code analysis and vulnerability detection.
- Performed Static analysis on NSA's Juliet Test suite comprising of 38k java programs using TOIF, PMD and SonarQube.

Analysis of a Single Sign-On Mechanism

(Java, JDBC, JSP, MySQL, HTML, CSS)

- Demonstrated the security issues dealing with single sign-on mechanisms using Distributed Computer Networks methods.
- Built a secure system that was able to demonstrate the flaws in the current scheme how it could be improved.

MavAppoint: Academic Advising System

(J2EE, JDBC, JSP, MySQL, HTML, CSS)

- Developed an Academic Advising System for departments across the UT Arlington following Agile Unified Methodology.
- Prepared Software Requirement specifications, Use cases, Scenarios, Activity diagrams and Design Class Diagram and implemented them using Software Design Patterns.

Experience

OPERATIONS EXECUTIVE | GOZOOMO, INC. | SEPTEMBER 2014 – DECEMBER 2014

- Monitored and operated on business metrics to research long-term profitability trends in the industry.
- Coordinated with suppliers for providing right quality & negotiating price.