Rahul Middha

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Education
MASTER OF SCIENCE | 2015 - 2017 | THE UNIVERSITY OF TEXAS AT ARLINGTON
Arlington, TX   **Major:** Computer Science

BACHELOR OF ENGINEERING | 2010 - 2014 | VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Bangalore, India   **Major:** Information Science and Engineering

Projects
Big Data on AWS: Map Reduce, Clustering and Visualization
(AWS EC2|S3|RDS, Hadoop, Python, MATLAB, HTML, CSS)
- Created and configured an Amazon Elastic Compute Cloud (EC2) instance with Hadoop to perform map-reduce on large data-sets comprising of million tuples.
- The results were grouped using k-means clustering based on the user's choice. Depending on the user's choice, the results were displayed in the form of scatter and/or bar charts.

HTKS Game using Nao Robot for Children Suffering from Executive Function Disorder
(Java, JPA, JSP, Python, JavaScript, and Kinect Studio)
- Developed a game on a humanoid robot which serves as rehabilitation therapy for children suffering from executive function disorder.
- Built a web application using Java and J2EE technologies – JSPs, Servlets and Hibernate to control the robot and a video recognition module to evaluate whether the children are performing the tasks correctly using a Kinect camera.

MavAppoint: Academic Advising System
(J2EE, JDBC, JSP, MySQL, HTML, CSS)
- Developed an Academic Advising System for departments across the UT Arlington following Agile Unified Methodologies and Core Java Components to act as a medium between the students and advisors while scheduling advising sessions.
- Using IDE's Eclipse 3.x, prepared Software Requirement specifications, use cases, Scenarios, Activity diagrams and Design Class Diagrams and implemented them using Software Design Patterns to make the system less complex.

Experience
WEB DEVELOPER (VOLUNTEER) | GLOBALSOFT, INC. | SEPTEMBER 2017 – PRESENT
- Redesign Internet and intranet pages. Use SEO best practices to optimize the Web site for search engine rankings and improve the functionality of company database.
- Updated CSS layout to reflect the new changes as per the addition of new components.
- Managing and extracting data from websites using SQL and Python.

OPERATIONS EXECUTIVE | GOZOOMO, INC. | SEPTEMBER 2014 – JANUARY 2015
- Developed and maintained unit tests and automated system tests using JUnit which increased efficiency by 70%.
- Designed the Front-End using JSP, AJAX, Java Script, CSS and customized JSP Tag Libraries. Also did server-side logic development. Developed Action Classes, Action Forms and Servlets.

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: Python, R, SQL, Java, HTML, JavaScript
Platforms: Apache Spark, Hadoop, NetBeans IDE, Tableau, MS Excel,
Technologies: JDBC, Servlets, SOAP, Java Beans, JavaScript, Angular JS, Node.js
Databases: Hadoop, SQL Server, MySQL, NoSQL