

# AJAY ARJUN B KA

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## EDUCATION

### University of Texas at Arlington

MASTER OF SCIENCE IN COMPUTER SCIENCE (GPA : 3.9/4.0)

Arlington, Texas

May 2017

### Anna University

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE

Tamilnadu, India

August 2010 - May 2014

## WORK EXPERIENCE

### Infosys, India Private Limited

SYSTEM ENGINEER

September 2014 - May 2015

- Contributed to the development of a website for Glaxo Smith Kline, using Adobe CQ 5.6, JavaScript, and jQuery.
- Authored and published web forms, and performed functionality testing.
- Lead a team of 3 members in the development of an internal system to track issues, and monitor resource allocation.[Spring MVC]

### MS. Swaminathan Research Foundation

WEB DEVELOPER INTERN

January 2014 - March 2014

Performed requirement analysis and developed a planning system using Java, to schedule conferences among branch research centers and training sessions to students to increase productivity.

## SKILLS

<b>Languages and Scripts</b>	:	Java, Python, C++
<b>Web Technologies and Frameworks</b>	:	JavaScript, HTML, CSS, jQuery, JSP, AngularJS, Node.js, ExpressJS, Spring MVC
<b>Cloud Technologies</b>	:	AWS [RDS, EC2, S3, Elastic beanstalk], Google App Engine, IBM Bluemix
<b>Databases</b>	:	MySQL, MongoDB, SQL Server
<b>Other Tools and IDEs</b>	:	Windows, Linux, Eclipse, GitHub

## PROJECTS

- **HTKS Game using Nao Robot for Children Suffering from Executive Function Disorder:**  
Developed a game that runs on a humanoid robot to aid in the rehabilitation of children suffering from executive function disorder. Built a user interface to control the robot and a video recognition module to evaluate whether the children are performing the tasks correctly using a Kinect camera. [Technologies: Java, Java Servlets, JPA, JSP, Python, JavaScript, and Kinect Studio].
- **Secure Cloud Storage:**  
Developed a web application that encrypts and store files on Bluemix storage. Implemented separate workspaces and version control for all users [Technologies: Java, AES Encryption]
- **Weather Data Repository on Amazon Web Services:**  
Implemented a Weather Data Repository on AWS using Amazon EC2 instance to carry out analysis. Built a user interface to generate queries dynamically and reduced the database access time by 10 folds by the implementation of Elastic Cache. [Technologies: Python, AWS, Memcache]
- **Static Code Analyzer for Security Analysis:**  
Implemented online static code analyzers [rats and Pylint] as REST API and displayed results dynamically with versioning and multiuser support. [Technologies: Node.js, Angular JS, AWS]
- **Hadoop Map Reduce and K-Means Clustering on Earthquake data set:**  
Implemented Hadoop Map-reduce multi-node cluster on AWS to analyze earthquake patterns and used K-means clustering to visualize the results in the form of scatter plots and histograms using R and Shiny server. [Technologies: Python, R, Google charts, AWS (RDS, S3, EC2, Elastic Beanstalk), MongoDB]
- **Web Platform for Navigating Hospital Admission Information:**  
Java based web application which provides a user with useful information like the average length of stay, mortality rate and the average cost of the treatment based on current admission records and diagnosis code. [Technologies: Java, Java Servlets, JPA, JSP]

## PUBLICATION

### HTKS Game using Nao Robot for Children Suffering from Executive Function Disorder:

Published in: Pervasive Technologies Related to Assistive Environments (PETRA).

url: <http://dx.doi.org/10.1145/2910674.29358>