

Krishna Rao

EDUCATION

The University of Texas at Arlington
Master of Science in Computer Science

August 2019 – Expected May 2021
GPA – 3.33/4.00

TECHNICAL SKILLS

- **Operating Systems** : Windows, Android, Linux (Ubuntu)
- **Languages** : C#, Java, Python, Pig, Hive, MapReduce, Spark, PL/SQL, PHP, JavaScript, Scala
- **Web Technologies** : HTML5, CSS, WordPress, XML
- **Databases** : MongoDB, MySQL, SQLite
- **Tools** : PhpMyAdmin, IntelliJ, Microsoft Visual Studio, CodeIgniter

ACADEMIC PROJECTS

Multi-Threaded Client Server Architecture

(Java)

- Created a Multi-Threaded Client Server Architecture system using Java JVM.
- Used three clients and a single server setup for performing operations like Create, Delete, Rename, Replace and listing of directories.
- Additional operations like saving a copy of created directories in a local system and updating them accordingly is also done.

Hotel Management System

(Java, Android)

- An Android application that is used to manage all aspects of a hotel business is created.
- Operations ranges from creation of a profile till payment for a booked room.
- Roles like manager, guest and admin is also provided.

K-means Clustering

(Java, MapReduce, Apache Spark, Apache Pig, Apache Hive)

- Developed a Map-Reduce program on Hadoop that evaluates one step of k-means clustering.
- Improved the performance of k-means clustering by using in-mapper combining.
- Developed a data analysis program (Graph Processing) using Apache Pig, Apache Hive, Apache Spark.

Serve-Me System

(Java, Android)

- An Android application that is used to manage and track orders placed according to priority and time.
- Work orders will then be sent to nearest vendors with an asking price and availability.
- It is a customer obsessive application.

Data Mining

(Python)

- Implemented K-means clustering, Kernel Density Estimation and Naïve Bayes Classifier from scratch.
- Built a TF-IDF weight matrix on each row from the Dataset and represented them in a vector space.
- Implemented Logistic Regression and performed batch and online training using gradient descent.

Portfolio Website

(HTML5, CSS, WordPress, JavaScript, PHP, CodeIgniter, MySQL, PhpMyAdmin)

- Created portfolio website for Web Data Management and hosted in in UTA Cloud.
- Added Operations for management of Users, Administrators, Events, Businesses, billing, and blogs.
- Used MySQL database for backing storage as part of persistence layer.
- Validated on HTML5 pages, Client-Side using JavaScript and Server-Side using PHP.

PROFESSIONAL EXPERIENCE

Technical Associate / Dotnet Developer – atyati Technologies Limited, Bangalore, India

Dec 2017 – Jul 2019

- Developed application for last mile banking which helps people in villages and far-by places to do their financial transactions by booking a time they would be available.
- Back end development for an android application for Shivalik Bank was done to handle many transactions like Balance Inquiry, Fund Transfer, RD, FD etc. Encryption algorithms like AES-128 and SHA-256 were used.