

Karan Shukla

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Education

- ❖ University of Texas at Dallas GPA: 3.86
 - Master of Science, Computer Science, Data Science Track Spring 2018
 - Bachelor of Science, Computer Science (Honors) Spring 2017
- ❖ Minor in Statistics

Skills

- ❖ Proficient in **R, Scala, Java, and Python**
 - R Libraries: roxygen2, RMarkdown, dplyr, and ggplot2
- ❖ Experience with **Spark** (Streaming, MLlib), **Git, SQL, C, C++, Javascript, HTML, Linux, OSX**
 - Spark Libraries: Streaming, MLlib
- ❖ Data Science – **Machine Learning, Data Analytics, Data Visualization, Relational Databases**

Professional Experience

- ❖ Extreme Blue Intern at IBM Cloud Infrastructure, Austin, TX Summer 2016
 - Built "Cloud Vigilante", an **anomaly detection** and **predictive model** for cloud availability using **Spark Streaming** and **Scala**
 - Practiced **agile development** using the **Scrum framework** and **Git version control**
 - Pitched project to company executives
- ❖ Student Researcher at UTD Data Security and Privacy Lab Fall 2015
 - Implemented novel synthetic data generation algorithm using **R**
- ❖ Data Science and Analytics Intern at Verizon, Irving, TX Summer 2015
 - Developed **R** programs to allocate resources and identify upselling opportunities using **linear and logistic regression**
 - Constructed **data visualizations** of customer sentiment using **R's ggplot2** package
 - Developed **Java** program to find optimal path between geographic locations
 - Presented analytics insights to business executives
- ❖ Student Researcher at UTD Data Mining Laboratory Summer 2014
 - Investigated and wrote survey paper on applications of big data and RFIDs in healthcare

Recent Projects

- ❖ K-Means Image Compression April 2016
 - https://github.com/shuklak13/KMeans_Image_Compression
 - **Java** application that uses **k-means clustering** to compress image files
- ❖ weeab-sume March 2016
 - www.weeab-sume.com
 - Web application that generates anime-themed resumes
 - Developed in **Javascript** and **HTML** using the jsPDF library at HackUTD
- ❖ anonymizeR Summer 2015 – Spring 2016
 - <https://github.com/shuklak13/anonymizeR>
 - Open-source **R** package with simple tools to create anonymous data sets
- ❖ SentweetSearch Fall 2013 – Spring 2014
 - <https://github.com/shuklak13/Sentweet>
 - Twitter application built with **Python's** Natural Language Toolkit that filters tweets by subject, location, time, and/or date and uses **Naïve Bayes** to **analyze sentiment**
 - Developed under mentorship of Professor Yang Liu of University of Texas at Dallas
- ❖ Final Fantasy game Fall 2013 – Spring 2014
 - <https://github.com/shuklak13/FinalFantasy>
 - Developed Final Fantasy-themed game in **Java**, using AWT and Swing libraries

Achievements and Awards

- ❖ Top 7 at HackDFW (2015); National Merit Scholar; UTD Academic Excellence Scholar