

# Mayank Khullar

mkhullar.me  
(480) 465-7980

mkhullar@asu.edu  
linkedin.com/in/mkhullar  
github.com/mkhullar

## Summary

Software Developer skilled in Java, JavaScript, and Python. Working as a Research Assistant on sentiment analysis by taking advantage of Hadoop, Elasticsearch and by building RESTful APIs. Currently seeking opportunities in the Full-Stack Development.

## Education

**Master of Science, Computer Science**, Arizona State University, Tempe, AZ. GPA: 3.67 05/2018  
**Bachelor of Science, Computer Science**, Jaypee Institute of Information Technology, Noida, India. 05/2014

## Professional Experience

**Graduate Research Assistant**, ASU Decision Theater 08/2017 – Present

- Research on Yelp Data by utilizing Machine Learning techniques and in process of writing a Research Paper on Yelp.
- Optimized most of the Elasticsearch queries to reduce the execution time from 8-9 seconds to 2-3 seconds.
- Developed Applications using Python web frameworks like Flask and Django, DB like PostgreSQL, MongoDB, Elasticsearch, and Hadoop clusters and RabbitMQ.

**Software Engineer**, Cerner Corporation 04/2015 – 06/2016

- Developed patient appointment scheduling applications for hospitals and clinics.
- Built modules for Patient tracking, Shots tracking, Nurse appointments and Doctor appointments.
- Gained experience in Microsoft Foundation Classes, COM, Cerner Command Language and Agile Methodologies.

**Associate Software Engineer**, Accenture. 08/2014 – 03/2015

- Built many modules using Java Spring Framework, Apache Struts and Java Hibernate.
- Developed REST and SOAP web services while working as a Full-Stack Web Developer.
- Reduced the workload of client's BPO by 30% by developing interactive voice response (IVR).
- Pitched in and built tool which reduced the manager's workload by 20% and improved the cluster-wide team performance.

## Technical Skills

**Big Data Ecosystem**

Hadoop, ElasticSearch, Apache SparkSql, RabbitMQ.

**Programming Languages**

Java, Python, Android, C++, C#.

**Frameworks**

Spring, Hibernate, Django, Flask, WCF.

**Web Technologies**

RESTful API, JSP, JavaScript, Ajax, D3, CSS3, HTML5, AWS.

**Database Technologies**

Relational Databases (MySQL, SQL/PLSQL, PostgreSQL) and NoSQL (MongoDb).

**Tools**

Git, Maven, Jenkins, Agile Methodologies and Jira.

## Academic Projects

**Geospatial Distributed Computing using HDFS and Apache Spark**

- Performed geospatial database operations on large datasets stored in distributed systems using Hadoop, Apache Spark, GeoSpark library in Linux.

**Yelp Visualization**

- Built a responsive Yelp data visualization of restaurants using CanvasJs, HighChartsJs, D3, GoogleHeatmap Js, Django Framework and MongoDB.

**Batroid**: Android based Personal assistant.

- Built a Context-Aware Android application, Geo Do Not Disturb using Google Geofencing API, Automatic call rejection and reply for calls and text when in Geo DND. Notifications alert and directions to meetings, Automatic Birthday wishes and weather Notifications.

**C55 Bank**: Secure Banking Web Application

- Lead a Team of 16 people, Built Public Key Infrastructure, Developed the application using Java Spring and Spring Securities.
- Fortified security layer by One-time password, Regulated Session Management using Spring securities, developed Ajax calls to REST Controllers.

**Data Cluster Analytics**

- For a given Handwritten digits' dataset, developed ensemble training model comprising of K nearest neighbor, Support vector machine and Artificial neural network using only 13% of data.
- Performed majority voting scheme on results obtained by these models and achieved 96% accuracy.