

# CYNTHIA KHAN

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## Tools/Languages

Java, Scala, Python, R, MatLab, Tensorflow, Spark, MapReduce, Hive, MS SQL Server, MySQL, PostgreSQL, Tableau, Splunk, Angular, React, Flask, SpringBoot, XSLT

## EDUCATION

### Masters of Science in Computer Science

#### Georgia State University

Presidential Scholar | Rewriting the Code Fellow

expected Dec 2019

(GPA 4.0/4.0)

### Bachelor of Science in Computer Science

#### Georgia State University – Summa Cum Laude

Presidential Scholar | National Society of Leadership and Success | Golden Key International Honor Society

Aug 2018

(GPA 3.98/4.0)

## PROFESSIONAL EXPERIENCES

### Panacea Lab

Aug 2018-Present

#### Student Researcher –

- Currently working on improving existing algorithms for predicting tweet geo-location using Neural Network.
- Worked on completing pipeline to extract, clean and load quarterly FAERS data to be queried for drug/outcome stats
- Sanitized twitter dataset and uploaded as json records in PostgreSQL database to be used in future research.

### Georgia State University

May 2018-Present

#### Graduate Student Assistant – Tools: Linux Server, MySQL Workbench, Python-Flask

- Currently teaching Java as a Lab Instructor for Dept. of Computer Science.
- Managed the Facilities Management Services department server (Linux) and databases (MySQL).
- Worked to automate the University's utility bill collection and create dynamic dashboard to show hourly consumption

### Co-Star Group

Sep 2018-Feb 2019

#### SQL Developer – Tools: MS SQL Server, IBM Cast Iron, TFS, Visual Studio

- Worked with SQL Server 2016 to create views, stored procedures and functions to support Web Reporting System
- Used Cast Iron to Integrate Web service requests and generate customized financial reports for Co-Star's clients
- Developed Angular Framework Application to enable client access to lease and portfolio information.

### DataScape Inc.

Oct 2017- Aug 2018

#### Data Analyst – Tools: Hadoop, Splunk, Tableau, AWS

- Trained in Java and Tomcat Applications to support billing platforms of clients like Verizon, AT&T, Cricket, Fiserv, etc.
- Used Hadoop MapReduce to generate daily transactional reports from PostgreSQL database log files
- Worked with Splunk and BI tools like Tableau on AWS EC2 platform to create dynamic dashboards for clients.

### Axial Corp.

May 2017-Jul 2017

#### SQL Server DBA Intern – Tools: SSMS, Windows Server, SSIS, Microsoft Office

- Installed MS SQL Server 2016 on Windows Server 2012 and documented the process of Server Migration.
- Worked with ETL packages such as SSIS to migrate large volumes of data to and from Data Warehouses
- Learned the structures and integration of data centers with clustered environments and cloud-based applications.

## PROJECTS

- **SpaceJam** : Implemented CNN architecture for object recognition and Canny Algorithm and Hough Transformation in addition to other edge detection techniques to determine the dimensions of a room from image dataset. [\[git\]](#)  
**Skills:- Computer Vision, OpenCV, Matlab, R**
- **Overpowered** : Constructed a pipeline of collecting and analyzing utility usage data in an hourly interval. The system would monitor usage and send signal to smart devices, within the network in unoccupied areas, to automatically shut down if usage crossed a determined threshold. [\[git\]](#)  
**Skills:- Python, Scikit, Machine Learning, Smart Device API (Phillips)**
- **TrendTube** : Created an application suite for interpreting YouTube data sets of size over 100TB. Used Python with Spark RDDs and Dataframes for parsing the data, R and D3.js to visualize the results and SparkML to create predictions. Hosted a website on Amazon EC2 instance to create a user interface for interacting and querying the data set. [\[git\]](#)  
**Skills:- Scala, Hive, Spark, Tableau, AWS**