ARUSHI SHAH

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EDUCATION

Columbia University in the City of New York   **Expected Dec'17**
Masters in Computer Science
Honors : Google 2017 Grace Hopper Conference Scholarship, Vice President of Graduate Society of Women Engineers

University of Mumbai, India   **May'16**
Bachelor of Engineering in Information Technology.

SKILLS

- **Programming Languages:** Python, Java, C, SQL, C++, CSS, JavaScript, jQuery,R, PHP
- **Tools and Technologies**: Linux/UNIX and Windows Environment, Git, Slack, Hadoop, Hive, MR, Amazon Web Services, Excel, Eclipse, Kafka, Scikit-Learn, Spark, Django, Tableau, Flask.

WORK EXPERIENCE

Columbia University, Teaching Assistant   **Sept'17-Present**
- Teaching Assistant for Advanced Software Engineering course.

Cloudera Inc, Software Engineering Intern   **May'17-August'17**
- Validated High Availability, Reliability and Performance for Hive, an open source data warehousing software.
- Wrote a multithreaded workload in Java to analyze and test Hive, wrote a Jenkins job to run the workload, testing the HiveServer2 and HiveMetaStore components.
- Proposed architectural and configurational changes to improve High Availability performance.

Columbia University, Teaching Assistant   **Jan'17-May'17**
- Teaching Assistant for Computer Systems for Data Science focusing on Hadoop, MR, Hive, Spark.

Old Dominion University, Research Assistant, Virginia.   **Jun'15-Aug'15**
- Developed an indoor tracking application for an android mobile device for a client in the healthcare industry. Researched and analyzed a complex number system, quaternions, to compute the position of a person more efficiently, as compared to what can be done by the android API.
- Awarded 'Most Outstanding Intern'.

PROJECTS

GigDigger - App to Connect Amateur Musicians with Venues   **Jan'17-May'17**
- Created a web application using Django framework that will connect amateur musicians with venues looking to hire them for gigs. Using Scrum development methodology and Agile principles for development. Designed unit test and integration test cases with 100% code coverage.
- Using Yelp and SoundCloud APIs to populate user profiles. Awarded Best Project by J.P Morgan.

DynamiCar - Route Optimizing Carpooling App   **Oct'16-Dec'16**
- Created a mobile cloud application that enables users to carpool with each other.
- Designed and implemented a route optimization algorithm that maps the best possible route between the drivers and the riders. Developed the application in Flask using Python, deployed it on Amazon Web Services' Elastic BeansStalk, used SNS for notifications and SQS for queuing the customers.

Query Expansion for Information Retrieval System   **Oct'16-Nov'16**
- Created an information retrieval system in Python and SQL to expand and refine search results returned by Bing using User Feedback.
- Improved the search results to result in a precision of 0.9-10 for all queries.

Adaptive Aptitude Test   **Mar'16-Apr'16**
- Designed and implemented an adaptive aptitude test using client-server architecture that adjusts the difficulty level of the questions based on the correct answers given by the user.
- Used jFrame and Swing for the UI. Deployed the application on a server which could be accessed by multiple clients once they logged in.

PUBLICATIONS

A Model for Ethical Artificial Intelligence   **Jun'15-Oct'15**
- Collaborated with a team of four, on a paper to create a model for inducing ethics in an Artificially Intelligent system. Paper published in International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE) Vol 4, Issue 10.

VOLUNTEER WORK

- Tutor for student athletes at Columbia University in Computer Science Courses.   **Jan'17 - Present**
- Volunteer teacher at Akanksha Foundation for underprivileged children.   **Jan'14-Aug'16**