Rajat Shah

rshah6@ncsu.edu

(919)-917-6983

http://shahrajat.com/

Education

- **Master of Computer Science**   **CGPA: 4.0/4.0**
  North Carolina State University, Raleigh, NC   *Fall 15 - Present*
    - **Relevant Coursework**: Machine Learning, Foundation of Data Science, Design and Analysis of Algorithms, Artificial Intelligence, Algorithms for Data Guided Business Intelligence, Graph Theory.
    - **Graduate Research Assistant** in Center for Educational Informatics, advised by Dr. Min Chi.
    - **Publication**:"Deep Learning + Student Modeling + Clustering: a Recipe for Effective Automatic Short Answer Grading", *The 9th International Conference on Educational Data Mining (EDM2016).*

- **Bachelor of Technology, Computer Science**   **CGPA: 8.11/10.0**
  Visvesvaraya National Institute of Technology, India   *Fall 10 - Spring 14*

Work Experience

- **Amazon**   Seattle, WA
  Software Development Engineer Intern   *May 2016 - Present*
    - Part of Imaging Research team for enhancing Image Quality Assurance tools.
    - Built a prototype system to cluster similar images with a novel approach which significantly improved automation.

- **Morgan Stanley**   Mumbai, India
  Software Analyst   *Aug. 2014 - Jul. 2015*
    - Contributed in development of a reporting dashboard along with underlying Scala/Java service.
    - Built a SOAP service for Multi-threaded database access in a team of three, which was featured and showcased in the Global Town hall for its broad impact.

- **Goldman Sachs**   Bangalore, India
  Software Analyst Intern   *May. 2013 - Jul. 2013*
    - Optimized a market risk analysis tool by implementing Caching and utilizing Parallel Computing infrastructure to significantly reduce the execution time.

- **Indian Institute of Technology**   Mumbai, India
  Software Intern   *May 2012 - Jul. 2012*
    - Built an open source Joomla extension for hosting Quizzes on the online National Education Portal.

Skills

Proficient: C/C++, Java, Python, JavaScript, HTML, CSS, SQL, Git
Familiar: R, Scala, C#, Shell Scripting, PHP, Android

Projects

2016 Music Recommender System for Implicit Feedback Dataset.
   - Collaborative Filtering approach using Apache Spark's MLlib library in Python.

2016 Handwriting Recognition and Generation.
   - Trained ML models for handwriting recognition and studied application of RNNs for sequence generation.

2015 Anomaly Detection in Time Evolving Networks using Signature Similarity for graph comparison.

2014 Lead Web Developer for Technical Symposiums and several clubs' websites in VNIT.

2012 Intra College **Social Networking Portal** at VNIT with advanced features like dynamic news feed, discussion forum, chat integration with AJAX.

Activities

2016 Teaching Assistant - Introduction to Artificial Intelligence (CSC 411) at NCSU.

2014 Technical Secretary - Member of VNIT Students Council.
   - Administered web portals, intranet and supervised functioning of Technical Symposium.

2013 Vice-Chairperson - ACM Student Chapter of VNIT.
   - Coordinated and held seminars on programming and Web Technologies for undergraduate ACM members.