# Rajat Shah

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http://shahrajat.com/

## Objective

Seeking full-time Software Engineering opportunities starting December 2016 in an organization with challenging opportunities.

## Education

- **North Carolina State University** — Raleigh, NC, USA
  *Master of Computer Science, CGPA: 4.0/4.0* — *Fall 15 - Spring 16*
  - **Relevant Coursework**: Machine Learning, Foundation of Data Science, Design and Analysis of Algorithms, Artificial Intelligence, Algorithms for Data Guided Business Intelligence, Graph Theory.

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

## Work Experience

- **Amazon** — Seattle, WA
  *Software Development Engineer Intern* — *May 2016 - Present*
  - Working with Amazon Imaging Research team for enhacing tools to reduce manual work in images QA.

- **Morgan Stanley** — Mumbai, India
  *Software Analyst* — *Aug. 2014 - Jul. 2015*
  - Contributed in development of a Scala/Java service for reporting dashboard.
  - 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 reduce the execution time to approx. 40%.

- **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.

## Research

- **Center for Educational Informatics, NCSU** — Raleigh, NC, USA
  *Graduate Research Assistant* — *Sep. 2015 - Present*
  - Research in Educational Data Mining with emphasis on NLP and Machine Learning techniques.
  - **Publication**:"Deep Learning + Student Modeling + Clustering: a Recipe for Effective Automatic Short Answer Grading", *The 9th International Conference on Educational Data Mining (EDM2016).*

## Skills

**Proficient:** C/C++, Java, Python, JavaScript, HTML, CSS, SQL, Git
**Familiar:** R, Scala, 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 Adwords Placement** using Bipartite Graph matching algorithms
  - Implemented Balance Algorithm and Greedy Matching.

**2015 Anomaly Detection** in Time Evolving Networks using Signature Similarity.

**2014 Wed Development Lead** for Technical Symposiums and several clubs' websites.

**2012** Intra College **Social Networking Portal** 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 Technical Symposium.

**2013 Vice-Chairperson** - ACM Student Chapter of VNIT.

**2013** Secured 25th rank at ACM-ICPC onsite contest in India.