

Nihal Balani

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Education

Degree	University	Year	Performance
MS, Computer Science <i>Specialization: Machine Learning</i>	Georgia Institute of Technology	2014 - 2016	4.00 / 4.00
B.Tech, Computer Science	Indian Institute of Technology Indore	2009 - 2013	8.72 / 10

Experience

TA, Computability & Algorithms, Georgia Tech, Atlanta **Fall 2015**

Software Engineering Intern, Google, Mountain View **Summer 2015**

- Designed and implemented a Metrics and Experiment Dashboard for Ads Budgeting
- The dashboard tracks relevant budgeting metrics at various levels of granularity, creates visualizations, and supports experiments
- **Technologies:** *C++, Protocol Buffer*

TA, Automata and Complexity, Georgia Tech, Atlanta **Spring 2015**

Member Technical, D. E. Shaw & Co, India **July 2013 - July 2014**

- Member of the technical group that develops infrastructure for the Energy trading group
- Implemented python scripts for data extraction and parsing from financial websites and created web interfaces for financial data
- **Technologies:** *Python, Perl, Javascript, SQL Server, MongoDB*

Research

Temporal Access Control with User Revocation for Cloud Data

Nihal Balani, Sushmita Ruj
Published at IEEE TrustCom 2014

Key Projects

Jointly Modelling Aspects, Ratings, and Sentiments (JMARS) **In progress**

- Scraped movie reviews from IMDB and used the JMARS approach to obtain predicted ratings for user-movie pairs. GitHub

Polynomial Solvability of 3-SAT **Fall 2011**

- Implemented Prof. Narendra S. Chaudhari's polynomial algorithm for 3-SAT in *C++*. Optimized the algorithm to use hash tables and achieved strong benchmarks on the time taken for datasets of various sizes.

Technical Skills

C++, Python, MySQL, SQL Server

Extracurriculars

Programming Contests

- Member of the team '*GT Engineers*' which won a *Bronze medal* (3rd place) at the *ACM ICPC South East Regional 2014*
- Ranked in the *top 550* of *Facebook Hacker Cup 2015*

Table Tennis

- Represented *D. E. Shaw & Co.* at *Hyderabad Corporate Olympics 2013* and *Am-cham Sports 2013*
- Represented *IIT Indore* at the *47th Inter IIT Sports Meet*