

# Rohan Singh

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## EDUCATION

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- **Carnegie Mellon University** Pittsburgh, PA  
*Masters in Information Systems Management; GPA: 3.85 (Dean's List)*  
*Courses:* Machine Learning, Distributed Systems, Database Management, NoSQL, Statistics, **Java** *May - 2018*
- **Birla Institute of Technology** Mesra, India  
*Bachelors in Computer Science; GPA: 3.5 (7.70/10.0 - First Class with Distinction)* *June - 2011*

## SKILLS SUMMARY

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- **Languages:** *Proficient* : **Java, Python, C++, SQL, C, VB, C#**
- **Tools:** Django, GIT, JIRA, Matlab, Tableau, MS-Excel
- **Databases:** MS-SQL, Redis, MongoDB, Oracle 11g

## ACADEMIC PROJECTS

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- **Log Analyzer:** Designed a **Java** based application which would let users run data analysis on generic log files for emacs.
- **Rental Car Management System:** Brainstormed and created a conceptual **ER Model** for Rental car companies.
- **Movie Review Classifier:** Implemented a Naive Bayes classifier from scratch to classify IMDB movie reviews.
- **Hangman:** Created a **Java Application** to play Hangman with real players or against the computer.

## EXPERIENCE

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- **Carnegie Mellon University** Pittsburgh, PA  
*Teaching Assistant - Database Management* *Aug 2017 - Present*
  - **Grader:** Graded student assignments and helped students in understanding critical concepts.
- **Sapient Global Markets (Client: Citadel LLC.)** Chicago, IL  
*Associate Technology L2* *Mar 2015 - Apr 2017*
  - **Team Lead:** Formed and coached an offshore team of 3 based in India by making several trips to India, resulting in streamlined operations for the client and addition of ~\$300,000 in revenues for Sapient.
  - **Data Quality Monitoring System:** Developed a flexible monitoring system to check quality of external data from vendors using state-of-art statistical data analysis, resulting in 200% decrease in turn-around time.
  - **Vendor Management:** Directed the vendor to fix their systems by identifying the top three reasons for bad data and negotiated with the vendor to provide 24x7 support in case of missing/bad data.
- **Sapient Global Markets** London, GB  
*Associate Technology L1* *Mar 2014 - Mar 2015*
  - **Commodity Trading Dashboard:** Architected a front-end interface, enabling the trading team to run models on-demand and make quick decisions.
  - **Strategy Modelling:** Revamped the legacy MS-Excel analysis system to use python along with modern scientific packages, reducing the model development and testing time exponentially.
  - **Future Pricing Model:** Implemented a model to generate trading signals for soft commodity futures based on several complex and hard to determine inputs.
- **Sapient Global Markets (Client: Citadel Securities)** Gurgaon, India  
*Junior Associate* *Feb 2012 - Feb 2014*
  - **Brokerage Client Dashboard:** Conceptualized an interface for managing brokerage clients and implemented the complete system, expediting the client onboarding and reporting process.
  - **Low Touch Servers:** Developed servers which processed over a billion shares a day which enabled adding new clients with high trading volumes and increased revenues to record levels.

## AWARDS, SOCIAL WORK, AND INTERESTS

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- **Awards:** *Dean's List* Outstanding GPA, Summer Semester (Aug 2017, Carnegie Mellon).
- **Social Work:** *Ugly Indian* (Intermittently: 2011,2015): Led the regional street-cleaning team.  
*Urban Mobility* (Intermittently: 2011,2015): Represented Sapient at the initiative to solve the traffic problem in India.
- **Interests:** Travelling: 18 countries and counting. Photography: Taking landscape photos.