

# Rohit Dholakia

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## Education

- Sept 2012–February 2014 **MSc in Computing Science**, *Simon Fraser University*, British Columbia, Canada, *3.6/4.0*.  
My thesis defense was on January 29, 2014. My dissertation, supervised by Dr Anoop Sarkar, resulted in significantly better translation models for four different and very resource-poor languages, using the approach of triangulation. The work is under submission at a leading NLP conference
- 2006–2010 **B. Tech in Computer Science**, *SASTRA University*, Tamilnadu, India, *7.98/10.0*.  
Under the guidance of Dr Sairam, I implemented Collaborative filtering algorithms for the MovieLens dataset, and also incorporated some of the findings of the Netflix prize

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## Projects

- Fall 2012 **Haitian-Creole Machine Translation**  
*Extensive results on the feasibility of efficient Machine Translation for noisy Haitian-Creole SMS*  
Mentor: Dr. Anoop Sarkar, Natural Language Lab, SFU  
Language: Python
- Spring 2012 **Mining StackExchange**  
*Mined complete StackExchange dump( 22G). Found that majority of users stop contributing after attaining a badge, average time to answer is low all across stackexchange.*  
Mentor: Dr. Jian Pei, Data Mining Lab, SFU  
Language: Python
- Spring 2012 **Large-scale Truecasing using Distributed Language Models**  
*Proved that Redis can handle more than 200 concurrent clients answering several language model queries swiftly. Language Model used was gigaword generated using 1200 million words*  
Mentor: Dr. Arrvindh Shriraman, Systems Lab, SFU  
Language: Python
- Summer 2013 **Implementing core algorithms of Machine Translation**  
*IBM Models, Decoding, Reranking and Evaluation metrics*  
Mentor: Dr. Anoop Sarkar, Natural Language Lab, SFU  
Language: Python

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## Work Experience

- Fall 2012 - Present **Research Assistant** : Natural Language Lab, SFU
- Summer 2013 **Teaching Assistant** : CMPT 300 - Operating Systems
- July, 2011 - June, 2012 **Software Developer**, *MoveInSync Technologies*, Hyderabad.
  - Designed, implemented and deployed an end-to-end automation framework using Selenium 2 to build, test and deploy the product for every build.
  - Designed, and implemented a multi-threaded Java application to simulate large workloads for the application with the aim of finding loopholes that only come up at scale
- July, 2010 - May, 2011 **Project Associate**, *SIEL*, IIIT Hyderabad.
  - Led a Nokia-funded project to develop and deploy small yet accurate CRF models to enable short messages in 6 major Indian languages, on MeeGo platform using only 128MB of RAM
  - Improved transliteration engine of a cross-lingual search engine for Indian languages, using large-scale CRF models. Brought accuracy from 60% to more than 75% for all the languages.

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## Awards

- Graduate Fellowship Fall 2013

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## Technical Skills

- Languages C, Java, Python, SQL  
Toolkits Moses, Kriya, Eclipse, Redis

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## Coursework

Big Data Mining, Algorithms, Natural Language Processing, Multi-Core Systems, Machine Translation