

# Samridhi Shree Choudhary

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## Education

### Carnegie Mellon University

Pittsburgh, USA

MASTERS IN LANGUAGE TECHNOLOGIES

August 2016 - August 2018

- Advisor: Carolyn Penstein Rosé
- CGPA: 3.84/4
- Selected Coursework: Intro to Machine Learning, Algorithms for NLP, Machine Translation, Computational Discourse Analysis, Deep Learning (ongoing), ML for Large Datasets (ongoing)

### Vellore Institute of Technology

Vellore, India

BACHELOR OF TECHNOLOGY

May 2008 - June 2012

- Major: Computer Science and Engineering
- CGPA: 9.4/10

## Professional Experience

### Microsoft

Hyderabad, India

SOFTWARE ENGINEER (CLOUD DATA AND APPLICATION PROTECTION)

June 2012 - March 2016

- Worked on the design, implementation and testing of major replication features of standalone and clustered virtual machines for enterprise servers.
- Designed and implemented automated Functional and UI Component Test Library, used by entire team.
- Designed and ran performance tests and authored server reports published to the customers.
- Mentored interns and new-recruits for independently owned modules.

### Microsoft

Hyderabad, India

SOFTWARE ENGINEERING INTERN (WINDOWS SERVICEABILITY)

May 2011 - July 2011

- Built an automated fuzzing system that was used to fuzz the DNS Cache Interfaces of Windows Server and Client OS.

## Research Experience

### Language Technologies Institute (CMU)

Pittsburgh, USA

RESEARCH ASSISTANT (ADVISOR: CAROLYN PENSTEIN ROSÉ)

August 2016 - PRESENT

- Understanding the impact of coordination and developer conversation patterns on project success in open-source communities on platforms like GitHub.

### Alexa Prize Challenge 2017 (Team - CMUMagnus)

Pittsburgh, USA

OFFICIAL MEMBER (ADVISOR: ALAN BLACK AND CAROLYN PENSTEIN ROSÉ)

November 2016 - August 2017

- Designed and implemented retrieval-based models for opinion-mining and finite-state models for dialog strategies for a multi-turn conversational agent.

## Technical Skills

**Programming Languages** : C/C++(Intermediate), Python(Intermediate), C#(Intermediate),

Java(Beginner), Matlab/Octave(Beginner), R(Beginner)

**Deep Learning Libraries** : PyTorch(Beginner), DyNet(Beginner)

**Database and Indexing Technologies** : MongoDB(Intermediate), Lucene(Beginner)

## Publications

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**Conference Paper** : Samridhi Choudhary, Christopher Bogart, Aaksha Meghawati, Carolyn Rosé, James D. Herbsleb. *Not Just Who But How: Reconsidering Coordination in Open-Source GitHub Projects*. Under Review at the International Conference of Software Engineering, ICSE 2018

Under Review

**Workshop Paper** : Samridhi Choudhary, Shrimai Prabhumoye, Evangelia Spiliopoulou, Christopher Bogart, Carolyn Rose, Alan Black. *Linguistic Markers of Influence in Informal Interactions*. Second Workshop on NLP and Computational Social Science, ACL 2017

Vancouver, Canada

**Workshop Paper** : Elizabeth K. Bowman, Matt Turek, Paul Tunison, Reid Porter, Steve Thomas, Vadas Gintautas, Peter Shargo, Jessica Lin, Qingzhe Li, Yifeng Gao, Xiaosheng Li, Ranjeev Mittu, Carolyn Penstein Rosé, Keith Maki, Chris Bogart, Samridhi Shree Choudhary. *Advanced text and video analytics for proactive decision making*. SPIE Defense+ Security, International Society for Optics and Photonics, 2017

California, USA

## Projects

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### OpinionBot: An Intelligent Conversational Agent for Opinion Mining

LTI, CMU

ADVISOR: ALAN BLACK AND ALEXANDER I. RUDNICKY

January 2017 - May 2017

- Implemented and deployed an Alexa Skill to fetch diverse and succinct opinions on different topics from the Washington Post Corpus.
- Implemented a retrieval model with *MMR Reranking* to fetch diverse opinions for a given query. These opinions were summarized into a coherent answer using *Extractive Summarization* with *TextRank*.

### Understanding Structure in Open-Domain Dialog

LTI, CMU

ADVISOR: GRAHAM NEUBIG AND ALAN BLACK

January 2017 - May 2017

- Implemented a sequence-to-sequence model with attention to understand the inherent structure of dialog responses for the Ubuntu Dialog Corpus.
- Defined the structure of a response by converting the dialogs into templates using their parse trees annotations. These templates were learned using the encoder-decoder model.

### GroupBanker - Android Application to Manage Group Expenses

VIT, Vellore

ADVISOR: VIJAYKUMAR K.

November 2011 - July 2012

- Implemented an Android application to manage group expenses among a peer group.

### Online Event Registration portal

VIT, Vellore

COLLEGE TECH FEST

August 2009

- Developed a web portal for event registration for the university's technical and cultural fest.

## Honors & Awards

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2016-2018

Carnegie Mellon University, USA

- **Graduate Research Fellowship** - Covers tuition, fees, conference travel and monthly stipend for the entire course duration.
- **AlexaPrize 2017 Research Stipend** - Our team was one of the 12 teams worldwide to be awarded a stipend of \$100,000 to compete in Amazon AlexaPrize.

2008-2012

VIT, India

- **Outgoing Awards and Gold Medal** - Awarded the *University Gold Medal*, *Best Outgoing Student* and *Ishan Goel Endowment Award* for excellent performance in Computer Science for my undergraduate course.
- **Annual University Scholarship** - Awarded university scholarship for securing Rank 1 in the Computer Science department each year through the 4-year course.