

# Mohit Singhal

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## RESEARCH INTERESTS

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Social Computing, Machine Learning, Malicious Code Analysis, Content Moderation, Data-driven Fact-checking, Data Mining

## EDUCATION

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### The University of Texas at Arlington

*Ph.D. Candidate in Computer Science*

*Advisor: Dr. Shirin Nilizadeh*

Arlington, TX

*In Progress, Aug. 2019 – present*

*Overall GPA: 3.83*

### The University of Texas at Arlington

*M.S. in Computer Science*

*Advisor: David Levine*

Arlington, TX

*Aug. 2017 – May 2019*

*Overall GPA: 3.62*

### Jaypee University of Information Technology

*B.Tech in Computer Science & Engineering*

Solan, India

*Aug. 2013 – May 2017*

*Overall GPA: 8.1*

## WORK EXPERIENCE

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### STEM Graduate Teaching Assistant

*The University of Texas at Arlington*

August 2018 – Present

*Arlington, TX*

- Taught over 150+ students Information Security lab (CSE 4380/5380)
- Developed & Conducted Capture the Flag (CTF) lab

### Summer Research Intern

*Indian Institute of Technology*

May 2016 – August 2016

*Roorkee, India*

- Proposed key stroke based password matching technique

### Summer Research Intern

*The University of Nebraska at Omaha*

May 2015 – July 2015

*Omaha, NE*

- Developed digital maps to monitor Atrazine levels in Mississippi River

## PROJECTS & PUBLICATIONS

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### Parler Toxicity | *Python, Parler API, Git*

July 2021 – Present

- Analyzing the toxicity of conversations on Parler
- Performing in depth analysis of content changes after policy changes

### Content Moderation Practices of Social Media Sites

March 2021 – Present

- Analyzing how different social media websites perform content moderation
- Performing in-depth analysis of the shortcoming and future opportunities for content moderation practices
- Submitted our findings to IEEE Euro S&P 2023

### Misinformation on Social Media | *Python, Twitter API, CrowdTangle API, Git*

August 2019 – May 2022

- Developed a command line tool to get tweets
- Implemented a Machine Learning model to classify posts into misinformation & true-positive
- To appear in ICWSM 2023

### Tweets Toxicity | *Twitter API, Python, R, Google Perspective API, Git*

September 2020 – Present

- Implemented a command line interface to get scores about tweets from Google Perspective API
- Implemented scripts in order to study the flow of toxic replies on Twitter
- Working on submitting our findings

### Drive-by Download Malware | *Python, VMRay Sandbox, Cuckoo Sandbox, VirusTotal*

August 2017 – May 2019

- Developed a tool for capturing malware samples in the wild
- Implemented Cuckoo Sandbox and VMRay in house to study malware samples
- Co-Author: Singhal, Mohit, and Levine, David . “Analysis and Categorization of Drive-by Download Malware.” 2019 4th International Conference on Computing, Communications and Security (ICCCS). IEEE, 2019.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL, HTML/CSS, R, C#

**Developer Tools:** Git, Visual Studio, Eclipse, OllyDbg, VMRay, Cuckoo Sandbox, Process Hacker, Process Explorer, Regshot

**Libraries:** Pandas, NumPy, Matplotlib, Sklearn, Tensorflow, Keras

## AWARDS & SERVICE

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**Sub-reviewer:** Euro S&P 2022, USENIX Security 2020 & 2021, RAID 2020, E-Crimes 2020

**Awards:**

- Awarded “The Outstanding TA award” by The Department of Computer Science & Engineering at UTA, 2022
- Awarded the best technical poster for “Detecting Misinformation about Zoom’s Security and Privacy Threats” at NDSS conference, 2022
- Awarded the best technical poster for “Detecting Misinformation about Zoom’s Security and Privacy Threats” at SCRF conference held at University of Texas at Arlington, 2022
- Recipient of the Student Travel grant for USENIX Security 2021
- Awarded the best poster at IEEE MetroCon Conference, 2019
- Awarded The Computer Science Scholarship by The Department of Computer Science & Engineering at UTA, 2019