

# 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, Fairness of AI systems

## 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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### Student Instructor

*The University of Texas at Arlington*

- Taught 80+ students Information Security course (CSE 4380)

Fall 2021, Spring 2023, & Fall 2023

*Arlington, TX*

### STEM Graduate Research Assistant

*The University of Texas at Arlington*

- Worked on algorithmic fairness of Yelp recommendation and ranking systems

Spring 2022, & Summer 2023

*Arlington, TX*

### STEM Graduate Teaching Assistant

*The University of Texas at Arlington*

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

Fall 2018 – Present

*Arlington, TX*

### Summer Research Intern

*Indian Institute of Technology*

- Proposed key stroke based password matching technique

Summer 2016

*Roorkee, India*

### Summer Research Intern

*The University of Nebraska at Omaha*

- Developed digital maps to monitor Atrazine levels in Mississippi River

Summer 2015

*Omaha, NE*

## PUBLICATIONS

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- **Singhal, M.**, Ling, C., Paudel, P., Thota, P., Kumarswamy, N., Stringhini, G., & Nilizadeh, S. (2023, July). SoK: Content moderation in social media, from guidelines to enforcement, and research to practice. In 2023 IEEE 8th European Symposium on Security and Privacy (EuroS&P) (pp. 868-895). IEEE.
- **Singhal, M.**, Kumarswamy, N., Kinhekar, S., & Nilizadeh, S. (2023, June). Cybersecurity Misinformation Detection on Social Media: Case Studies on Phishing Reports and Zoom's Threat. In Proceedings of the International AAAI Conference on Web and Social Media (Vol. 17, pp. 796-807).
- **Singhal, M.**, Kumarswamy, N., Kinhekar, S., & Nilizadeh, S. (2021). Poster: Detecting Misinformation about Zoom's Security and Privacy Threats. In (NDSS 2022). **Received Best Technical Poster Award**
- **Singhal, M.**, & Levine, D. (2019, October). Analysis and categorization of drive-by download malware. In 2019 4th International Conference on Computing, Communications and Security (ICCCS) (pp. 1-4). IEEE.

## CURRENT PROJECTS

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- Kumarswamy, N., **Singhal, M.**, & Nilizadeh, S. (2023, September). Impact of Stricter Content Moderation on Parler's User Discourse. Submitting to ICWSM 2024
- **Singhal, M.**, Pacheco, J., Debi, T., Khorzooghi, S. M. S. M., Asudeh, A., Das, G., & Nilizadeh, S. (2023). Auditing Yelp's Business Ranking and Review Recommendation Through the Lens of Fairness. arXiv preprint arXiv:2308.02129. [Submitted to VLDB 2024]
- Aleksandric, A., **Singhal, M.**, Groggel, A., & Nilizadeh, S. (2022). Understanding the Bystander Effect on Toxic Twitter Conversations. arXiv preprint arXiv:2211.10764. [Submitted to CSCW 2024]
- Salehabadi, N., Groggel, A., **Singhal, M.**, Roy, S. S., & Nilizadeh, S. (2022). User Engagement and the Toxicity of Tweets. arXiv preprint arXiv:2211.03856.

## BROADER IMPACT

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- Our paper SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice was cited in the official report submitted to *The Committee on Civil Liberties, Justice and Home Affairs* in **The European Union**.
- Our paper SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice was cited in *amicus curiae brief* submitted in **The Supreme Court** case *Gonzalez v. Google LLC*.

## AWARDS

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- Recipient of the Student Travel grant for Euro S&P 2023.
- Awarded the best Ph.D. lightning talk runner-up award for the research lightning talk on *Detecting Misinformation about Zoom's Security and Privacy Threats* at SCRF conference held at The University of Texas at Arlington, 2023.
- Awarded the best project presentation & demo runner-up award for poster *Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice* at SCRF conference held at The University of Texas at Arlington, 2023.
- Awarded *The Outstanding TA award* by The Department of Computer Science & Engineering at The University of Texas at Arlington, 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 The 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 The University of Texas at Arlington, 2019.

## SERVICE

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- Program committee member for The 16th Workshop on Cybersecurity Experimentation and Test Workshop (CSET 2023).
- Reviewer for Humanities & Social Sciences Communications Journal
- Sub-reviewer for Transactions on Information Forensics & Security, PoPETs/PETS 2023, Euro S&P 2022, USENIX Security 2020 & 2021, RAID 2020, E-Crimes 2020

## MENTORSHIP

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- Mentoring Javier Pacheco (Fall 2022 – Present)
- Mentoring Keren Valdez (Fall 2022 – Present)
- Mentored Katia Lopez (Spring 2022)
- Mentored Micheal Brady (Fall 2021)
- Mentored Nihal Kumarswamy (Fall 2020 – Spring 2022)
- Mentored Shreyasi Kinhekar (Fall 2020 – Spring 2022)

## 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