April 8, 2021 <u>LinkedIn</u> Google Scholar

RESEARCH INTERESTS

I have 4+ years experience of working on real-world computer security problems, often involving measuring, analyzing and understanding large-scale data from Internet-wide systems.

EDUCATION

• Georgia Institute of Technology Doctor of Philosophy in Computer Science Atlanta, GA 2019 – 2024

Guru Gobind Singh Indraprastha University Bachelor of Technology in Information Technology

Delhi, India 2014 – 2018

SELECTED PUBLICATIONS

Conference

- Kuchhal, D. and Li, F., Knock and Talk: Investigating Local Network Communications on Websites. currently under review
- Redmiles, E.M., Maszkiewicz, L., Hwang E., Kuchhal, D., Liu, E., Morales, M., Peskov, D., Rao, S., Stevens, R., Gligorić, K., Kross, K., Mazurek, M.L., Daume III, H.,
 Comparing and Developing Tools to Measure the Readability of Domain-Specific Texts.
 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP-IJCNLP 2019).
 Acceptance Rate: 23.8% (684/2877) [aclweb.org] [pdf]
- Redmiles, E.M., Zhu, Z., Kross, S., Kuchhal, D., Dumitras, T. and Mazurek, M.L.,
 Asking for a Friend: Evaluating Response Biases in Security User Studies.
 The 25th ACM Conference on Computer and Communications Security (CCS), 2018.
 Acceptance Rate: 16% (134/809) [dl.acm.org] [pdf]
- Gupta, S., Kuchhal, D., Gupta, P., Ahamad, M., Gupta, M. and Kumaraguru, P., Under the Shadow of Sunshine: Characterizing Spam Campaigns Abusing Phone Numbers Across Online Social Networks*.

The 10th ACM Conference on Web Science (WebSci), Amsterdam, Netherlands, 2018.

Acceptance Rate: 27% (30/113) [dl.acm.org] [pdf]

Award: Runner up for Best Student Paper

Journal

• Gupta, S., Bhatia, G., Suri, S., **Kuchhal, D.**, Gupta, P., Ahamad, M., Gupta, M. and Kumaraguru, P., **Angel or Demon? Characterizing Variations Across Twitter Timeline of Technical Support Campaigners.**

The Journal Of Web Science, 2019 [webscience-journal.net] [pdf]

Workshop

• Redmiles, E.M., Morales, M., Maszkiewicz, L., Stevens R., Liu E., Kuchhal, D. and Mazurek, M.L., First Steps Toward Measuring the Readability of Security Advice.

The 2018 IEEE Security & Privacy Workshop on Technology and Consumer Protection (**ConPro**), San Francisco, USA, 2018. [ieee-security.org] [pdf]

PayPal, Inc. Scottsdale, AZ

Information Security PhD Intern

Summer 2021

- Managers: Dr. Adam Oest (Research Scientist) and Dr. RC Johnson (Head of Security Research).
- Work: Exploring deployment efficacy of password-less authentication at PayPal.

Georgia Institute of Technology (Georgia Tech)

Atlanta, GA

2020 - present

Graduate Research Assistant

- Area: Empirical Measurement, Security and Privacy.
- o Advisor: Prof. Frank Li.
- o Projects:
 - * Investigating local network communications on websites.
 - * Investigating the YouTube view fraud ecosystem.

University of Maryland, College Park (UMD)

College Park, MD

2017 - 2018

- Research Assistant at Security, Privacy, People Lab (SP2)

 Area: Usable Privacy and Security.
 - o Advisors: Prof. Michelle Mazurek and Prof. Elissa Redmiles.
 - o Projects:
 - * Measuring and improving readability of security advice.
 - * Evaluating response biases in security user studies.

Indraprastha Institute of Information Technology, Delhi (IIIT-D)

Delhi, India

Undergraduate Researcher and Research Associate at PreCog Research Lab

2017 - 2019

- Area: Social Computing Security and Privacy on Online Social Networks (OSNs).
- o Advisor: Prof. Ponnurangam Kumaraguru.
- Projects:
 - * Detecting cross-platform spam on online social networks.
 - * Detecting and mitigating misinformation on WhatsApp.[technical details, press]

RELEVANT GRADUATE COURSEWORK

CS8803 - Empirical Measurement and Security, CS6238 - Secure Computer Systems, ECE4894 - Malware Reverse Engineering, CS7641 - Machine Learning, CS6262 - Network Security, and CS6260 - Applied Cryptography.

TEACHING

• GTA/CS6262 - Network Security: Responsible for redesigning and grading the Network Monitoring project and holding office hours in Spring and Summer 2020 semesters, with Prof. Wenke Lee.

ACHIEVEMENTS/HONORS

- USC Annenberg Fellowship, 2019: Received a 4-year fellowship of USD 34k to pursue a PhD in CS at USC.
- ACM CCS Student Travel Grant, 2018: Received a grant of USD 1k to attend ACM CCS in Toronto, Canada.
- Smart India Hackathon, 2017: Our team of 6 members advised by <u>Dr. Sambuddha Roy</u> won the first prize with a total cash prize of Rs. 2 lakh awarded by Government of India. [<u>GitHub</u>]
- Recognition of Service Award from ACM, 2016: Received as founding Chair of a 80+ strong team of ACM-MAIT Student Chapter.

SERVICE

- Georgia Tech Student Employee Advisory Board: Board Member, 2021-22 AY.
- Georgia Tech School of Computer Science SGA: Founding member and communications chair, 2021-22 AY.
- India Club at Georgia Tech: Board member, 2020-21 AY.
- Georgia Tech CS PhD admit visit days: Member of organising committee, 2019-21 AYs.