

Summary

Seeking a technical role in the field of Privacy Engineering

Strong technical foundations through 7+ years of research experience in Computer Security and Privacy followed by 5+ years of industry experience in Privacy Engineering

Capable of landing creative technical solutions that trade off legal requirements, engineering complexity, and business outcomes, both through individual contributions and through leadership

Experience

Manager, Privacy Engineering, Snap Inc., Seattle, WA Feb 2022 – Present

- Managed a team of nine privacy engineers and successfully promoted two team members
- Improved P90 reviewer response metrics by 4x to enable faster product iterations
- Helped team navigate reduction-in-force, return-to-office, departures and new hires, while maintaining high satisfaction scores

Privacy Engineer, Snap Inc., Santa Monica, CA → Seattle, WA Mar 2018 – Jan 2022

- Designed and developed privacy enhancing technologies using differential privacy and cryptography with direct applications in monetization, user growth and recommendations on Snapchat
- Improved Snap's privacy program by developing tools that (1) automatically monitor for privacy violations, and (2) increase efficiency and quality of privacy reviews

Research Intern, Technicolor Research, Los Altos, CA Summer 2015

- Worked on private aggregation protocols, and carried out cryptanalysis attack on published protocol

Research Intern, Microsoft Research, Bangalore, India Summer 2014

- Worked on identifying data-flows in Microsoft's big data platform using only data-logs

Education

Carnegie Mellon University, Pittsburgh, PA Mar 2018

Ph.D., Electrical and Computer Engineering

Advisor: Prof. Anupam Datta

Thesis: *Fairness and Privacy Violations in Black-Box Personalization Systems: Detection and Defenses*

Third place winner, 3-Minute-Thesis (3MT) Competition, CMU, 2016 [watch]

Indian Institute of Technology, Kharagpur, India Aug 2012

B. Tech (Hons), Computer Science and Engineering

Thesis: *Towards a Faster Fully Homomorphic Encryption Scheme*

Selected Publications & Patents

- *Privacy approval system*; with S. Sankuratripati, D. Shaji, M. Akhoondi, US11537746B2, Sep 2021.
- *Evaluating Anti-Fingerprinting Privacy Enhancing Technologies*; with J. Lu, M. Tschantz at The World Wide Web Conference (**WWW**), May 2019.
- *Discrimination in Online Advertising: A Multidisciplinary Inquiry*; with A. Datta, D. Mulligan, J. Makagon, M. Tschantz at Fairness Accountability and Transparency Conference (**FAT***), Feb 2018.
- *Influence in Classification via Cooperative Game Theory*; with A. Datta, A. Procaccia, Y. Zick at International Joint Conference on Artificial Intelligence (**IJCAI**), Aug 2015.
- *Automated experiments on ad privacy settings: A tale of opacity, choice, and discrimination*; with M. Tschantz, A. Datta at Privacy Enhancing Technologies (**PETS**), June 2015.
- *Asynchronous Computational VSS with Reduced Communication Complexity*; with M. Backes, A. Kate in Topics in Cryptology (**CT-RSA**), Feb 2013.

Technical Skills

- Python, Java, Google Cloud Platform, Looker Studio, Jira