

# NAMAN GUPTA

n@cs.wisc.edu | naman.github.io

Interests: I examine digital safety through interdisciplinary and decolonial lenses, focusing on technology-facilitated gender-based violence. My work identifies barriers faced by marginalized communities in seeking support, healing, and resilience. Additionally, I lead outreach efforts at the [Madison Tech Clinic \(MTC\)](#).

## EDUCATION

### University of Wisconsin-Madison, USA

Aug, 2021 - Present

PhD in Computer Sciences

Minor in Psychology, Gender & Women Studies, Law, and Education Policy

Advisor: [Rahul Chatterjee](#) | Expected Graduation Date: Dec 2026

Director of Community Outreach and Training at Madison Tech Clinic

Primary work with [MadS&P](#) | Affiliated with [Preventing Interpersonal Violence and Overcoming Trauma \(PIVOT\)](#) and [Sexual Violence Research Initiative \(SVRI\)](#)

### Indraprastha Institute of Information Technology, Delhi, India

Aug'2013 - Apr'2017

Bachelor of Technology in Computer Science & Engineering

## PUBLICATIONS

1. Julia Nonnenkamp, **Naman Gupta**, Abhimanyu Gupta, and Rahul Chatterjee, "[redacted]" **In-submission at CCS 2025**.
2. Sophie Stephenson, **Naman Gupta**, Akhil Polamarasetty, Kyle Huang, David Youssef, Kayleigh Cowan, and Rahul Chatterjee, "A Case Study on Legal Evidence of Technology-Facilitated Abuse in Wisconsin, USA" **Accepted to CSCW 2025**.
3. **Naman Gupta**, Kate Walsh, Sanchari Das, and Rahul Chatterjee, "[Barriers and Challenges Faced by Survivors of Technology-Facilitated Abuse in Seeking Social Support](#)". **USENIX Security 2024**.
4. **Naman Gupta**, Sanchari Das, Kate Walsh, and Rahul Chatterjee, "[A Critical Analysis of the Prevalence of Technology-facilitated Abuse in US College Students](#)". Late Breaking Work at **CHI 2024**.
5. Rose Ceccio\*, **Naman Gupta**\*, Majed Almansoori\*, and Rahul Chatterjee, "[Analyzing Patterns and Behavior of Users When Detecting and Preventing Tech-enabled Stalking](#)". Workshop on Usable Security and Privacy (USEC) **NDSS 2023**.
6. Mohannad Alhanahnah, Philipp Schubert, **Naman Gupta**, Thomas Reps, Somesh Jha, and Eric Bodden, "[slash: A Technique for Static Configuration-Logic Identification](#)". **arXiv, 2022**.
7. Zhe Tao, Aseem Rastogi, **Naman Gupta**, Kapil Vaswani, and Aditya V. Thakur, "[DICE\\*: A Formally Verified Implementation of DICE Measured Boot](#)". **USENIX Security 2021**.
8. **Naman Gupta**\*, Srishti Sengupta\* and Vinayak Naik. "[A firewall for internet of things](#)". **COMSNETS, 2017. Undergraduate Thesis**.
9. **Naman Gupta**\*, Anmol Singh\*, and [Sachit Butail](#). "[The effect of instructional priming on postural responses to virtual crowds](#)". Workshop on Virtual Humans and Crowds in Immersive Environments (VHCIE) **IEEEVR, 2017**.

\*Equal contribution.

## FELLOWSHIPS AND GRANTS

- |   |         |
|---|---------|
| • <b>Morgridge Fellow</b> for Community-Engaged Scholarship (CES)                 | 2025    |
| • <b>Pre-doctoral Fellowship</b> : Microsoft Research                             | 2020-21 |
| • <b>Research Grant</b> : Office of Victim and Crime (OVC), Department of Justice | 2022    |
| • <b>Travel Grant</b> : Network and Distributed System Security (NDSS) Symposium  | 2023    |
| • <b>Travel Grant</b> : USENIX Security   | 2024    |
| • <b>Travel Grant</b> : EuroS&P (Virtual)   | 2021    |

## PROFESSIONAL EXPERIENCE

### Pre-doctoral Research Fellow at Microsoft Research (MSR), India | UK

Jan'2020 - Jul'2021

#### Confidential Computing Group and Technology for Emerging Markets Group

- Developed a **toolchain** to evaluate the first-ever formally verified secure boot firmware on commodity hardware.
- Conducted security evaluations on Trusted Execution Environments (TEE) for GPUs, uncovering concurrency bugs.
- Designed a COVID-19 health certificate issuance system using **Microsoft CCF**.
- Improved Blendnet, an offline hyper-local video streaming solution for financial inclusion, optimizing WiFi throughput and latency.

### DevSecOps Engineer at Grab, India | Singapore

Aug'2018 - Dec'2019

- Led defensive security initiatives, enforcing hardening policies on payment infrastructure.
- Implemented application security policies on all company-wide Kubernetes clusters.
- Designed a secret-sharing policy for third-party vendor exchanges and vulnerability patching workflows.
- Organized Grab's Security Awareness CTF, developing cryptography challenges.

### Site Reliability Engineer at Media.net, India

Jun'2017 - Aug'2018

- Migrated a latency-sensitive Java application to a stateless microservice architecture, improving scalability and reducing costs by 80%.
- Designed a blue-green auto-scaling pipeline for a real-time ad-serving platform, increasing performance by 35% with 50% weekly traffic growth.
- Created an automated ticketing system to track infrastructure vulnerabilities and accountability.
- Conducted security training for 30+ new hires on Git, virtualization, Python, and systems security.

## SERVICE

- **Associate Chair (Program Committee)** CSCW'25
- **External Reviewer** EuroUSEC'24, CHI LBW'24, CSCW'24 🏆, Violence Against Women (VAW)
- **Poster Committee** SOUPS'24 🏆 & IEEE S&P'24 (Oakland) 🏆
- **Artifact Evaluation** NDSS'25 🏆
- **Organizer** for Queer in Security & Privacy NDSS 2023
- **Organizer** HCI Reading Group at UW-Madison 2024-2025
- **Organizer** Decolonial Collective at UW-Madison 2025
- 🏆 Special recognition for an outstanding review.

## TALKS AND PANELS

- **Panelist:** Reclaim Our Love Conference Mar, 2025
- **Guest Lecture:** PSYCH311: Sexual Violence Feb, 2025
- **Invited Talk:** Psychi Honor Society Dec, 2024
- **Invited Talk:** WI Dept of Justice, MMIW Taskforce Aug, 2024
- **Invited Poster:** UW-Madison: Research day at the UW State Capitol Apr, 2024
- **Organizer and Panelist** Navigating PhD coursework and stressors at UW-Madison Nov, 2024

## TEACHING AND ADVISING

- **Teaching Assistant (UW-Madison)** Capstone Projects (150+) x2, AI (150+) & Programming-III (800+)
- **Mentor (UW-Madison)** Mentoring 5 incoming CS International Graduate Students
- **Teaching Assistant (IIIT-Delhi & NPTEL)** Mobile Computing (200+)
- **Student-Instructor** DSA and System Programming for incoming master's students (50+)
- **Lead, Mentor Program** Paired 200 freshmen with senior students for independent projects
- **Administrator** Software Development Club (conducted several hackathons)

- **Talks (sophomore level, 200+)**
- **Mentor**
- **Organising Team**
- **Judge**

Virtualization, Security, Git, node.js, MVC frameworks

Rails Girls Summer of Code

1st Blockchain Summit in India

Google's Code to Learn Contest 2016