

# Sachin Kumar Singh

Last Updated : July 17, 2024

University of Utah  
Salt Lake City, UT

sachinkumar.singh@utah.edu  
thisissachin.xyz

---

## RESEARCH INTERESTS

My research interests are in the broad areas of *security, privacy, & internet measurement*. I am interested in developing new tools and techniques to advance the understanding of security and privacy issues, by leveraging internet measurement and data-driven analysis.

---

## EDUCATION

**Ph.D. Computer Science** *Jan, 2021 – Jul, 2025\**  
Kahlert School of Computing, University of Utah CGPA: 3.93/4  
Advised by *Prof. Robert Ricci*

**B.Tech. Computer Science & Engineering** *Jul, 2016 – Sep, 2020*  
Dr. A.P.J. Abdul Kalam Technical University, India CGPA: 8.3/10  
Thesis: A  $(k, n)$  Audio Secret Sharing with Share Authentication  
Advised by *Prof. Mainejar Yadav*

---

## EXPERIENCE

**Research Intern, Softsec Lab** *May, 2024 – Aug, 2024*  
Ruhr University Bochum, Germany  
Advised by *Prof. Kevin Borgolte*

**Visiting Researcher** *Jul, 2023 – May, 2024*  
University of California Davis  
Advised by *Prof. Alexander Gamero-Garrido*

**Research Assistant, Flux Research Group** *May, 2021 – May, 2024*  
University of Utah  
Advised by *Prof. Robert Ricci*

**Teaching Assistant, University of Utah** *Jan, 2021 – May, 2021*  
Supervised by *Prof. David Johnson*

**Data Science and Analytics Intern** *Jan, 2018 – Feb, 2018*  
Indian Institute of Management, Lucknow

---

## PUBLICATIONS

**Where The Wild Things Are: Brute-Force SSH Attacks In The Wild And How To Stop Them**  
Sachin Kumar Singh, Shreeman Gautam, Cameron Cartier, Sameer Patil, and Robert Ricci. In 21<sup>st</sup> USENIX Symposium on Networked Systems Design and Implementation (NSDI 2024) [↗](#).

## SKILLS

---

- **Programming:** Python, Python Libraries (Pandas, Numpy, Matplotlib, BeautifulSoup, etc.), C, C++, R, shell scripting.
- **Techniques:** Data Cleaning, Data Analytics, Data Visualization, Data Processing, Feature Engineering, Web-Crawling, Internet Measurements, RIPE infrastructure, Computational Social Science.

## PROFESSIONAL SERVICES

---

### Program Committee

- Privacy Enhancing Technologies Symposium (PETS) 2025.
- 6<sup>th</sup> Workshop on CPS & IoT Security and Privacy, co-located with the ACM Conference on Computer and Communications Security 2024.
- 9<sup>th</sup> International Workshop on Traffic Measurements for Cybersecurity (WTMC 2024) co-located with 9<sup>th</sup> IEEE European Symposium on Security and Privacy.

### Artifact Evaluation Committee

- 2024:
  - Network and Distributed System Security (NDSS) Symposium
  - 33<sup>rd</sup> USENIX Security Symposium
  - ACM Special Interest Group on Data Communication (SIGCOMM)
- 2023:
  - ACM Conference on Computer and Communications Security (CCS)
  - 32<sup>nd</sup> USENIX Security Symposium
  - 17<sup>th</sup> Workshop on Offensive Technologies (WOOT), co-located with IEEE S&P
  - ACM EuroSys 2023

## TALKS

---

- “Where The Wild Things Are: Brute-Force SSH Attacks In The Wild And How To Stop Them” at USENIX NSDI 2024.
- “Lessons From Four Years of SSH Break-In Attempts on a Production Facility and Countermeasure” at Cybersecurity Summer Institute 2023, Georgia Institute of Technology, Atlanta, USA.

## FELLOWSHIP & AWARDS

---

- Fellow at the Summer Research Institute on Systems, Security, and Privacy 2023 at École Polytechnique Fédérale de Lausanne, Switzerland.
- Fellow at the Second Annual Cybersecurity Summer Institute 2023, Georgia Institute of Technology, Atlanta, USA.
- Pre-doctoral Fellow at the Cornell, Maryland, Max Planck Pre-doctoral Research School 2022, Max Planck Institute for Software Systems, Saarbrücken, Saarland, Germany.