

Souradip Nath

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RESEARCH INTERESTS

Access Control and Authorization; Human Factors in Security and Privacy; Digital Forensics

EDUCATION

Arizona State University

Tempe, AZ, USA

Ph.D. in Computer Science, Advisor: [Dr. Gail-Joon Ahn](#), GPA: 4.00/4.00

In Progress

Indian Institute of Engineering Science and Technology, Shibpur

Howrah, India

B.Tech. in Information Technology, GPA: 9.93/10.00, First Class with Honors

2018–2022

- Capstone: “Development of an Online Document Tracking System”, Advisor: [Dr. Indrajit Banerjee](#) 2022
- Capstone: “Development of an Academic Search Engine”, Advisor: [Dr. Arindam Biswas](#) 2021

RESEARCH EXPERIENCE

Global Security Initiative, Arizona State University

Tempe, AZ, USA

Graduate Research Assistant, Advisor: [Dr. Gail-Joon Ahn](#)

Spring 2023–Current

- Working towards the design and development of a **Collaboration-aware Access Management** Framework for Scientific Resource Sharing and Privilege Management
- Performed a **qualitative study** involving researchers and system administrators to derive security requirements
- Surveyed different **Access Control Models** to examine their applicability to scientific resource access management in large-scale cyberinfrastructures

Indian Institute of Engineering Science and Technology, Shibpur

Howrah, India

Summer Research Intern, Advisor: [Dr. Ruchira Naskar](#)

Summer 2020

- Researched “Image Splicing Detection using Deep Neural Networks” with a Proof of Concept implemented using Python frameworks Keras, and Tensorflow
- Proposed a novel Neural Network to classify authentic and spliced images with more than 97% accuracy

PUBLICATIONS

- [1] **S. Nath**, A. Soneji, J. Baek, T. Bao, A. Doupé, C. Rubio-Medrano, and G.-J. Ahn, ““It’s almost like Frankenstein”: Investigating the Complexities of Scientific Collaboration and Privilege Management within Research Computing Infrastructures”, in *2025 IEEE Symposium on Security and Privacy (SP)*, IEEE Computer Society, 2025, pp. 2995–3013.
- [2] **S. Nath**, K. Summers, J. Baek, and G.-J. Ahn, “Digital Evidence Chain of Custody: Navigating New Realities of Digital Forensics”, in *2024 6th IEEE International Conference on Trust, Privacy and Security in Intelligent Systems and Applications (TPS-ISA)*, IEEE, 2024.
- [3] **S. Nath** and R. Naskar, “Automated image splicing detection using deep CNN-learned features and ANN-based classifier”, *Signal, Image and Video Processing*, vol. 15, pp. 1601–1608, 2021.

INDUSTRY EXPERIENCE

Deutsche Bank

Technology Analyst Intern

Pune, India

Summer 2021

- Utilized Python Pandas library to clean large datasets of scheduled jobs, conducted data analysis, and came up with an optimization algorithm for job scheduling using the Greedy algorithm
- Collaborated with a team of 3 and proposed a general framework for identifying an optimized job scheduling against a multi-parameter cost function

TEACHING EXPERIENCE

Teaching Assistant: Computer and Network Forensics, ASU, with [Dr. Jaejong Baek](#)

Fall 2024

POSTERS

- **S. Nath**, A. Soneji, J. Baek, T. Bao, A. Doupé, C. Rubio-Medrano, G. Ahn, “‘It’s almost like Frankenstein’: Investigating the Complexities of Scientific Collaboration and Privilege Management within Research Computing Infrastructures”, in *2025 IEEE Symposium on Security and Privacy (SP)*, 2025. [\[pdf\]](#)
- R. Dhuri, A. Soneji, and **S. Nath**, “‘When you are younger, you care less about privacy and security’: Exploring young adults’ maturation toward social media safety and privacy”, in *Cybersecurity and Trusted Foundations Summer High School Internship*, Arizona State University, 2024. [\[pdf\]](#)
- D. Moola, A. Soneji, and **S. Nath**, “‘What you put on the internet lives forever’: Analyzing Social Media Safety and Privacy Advice from Online Community Platforms”, in *Cybersecurity and Trusted Foundations Summer High School Internship*, Arizona State University, 2024. [\[pdf\]](#)
- **S. Nath**, A. Soneji, G.J. Ahn, J. Baek, C. E. Rubio-Medrano, “ScienceAccess: Towards Robust and Usable Access Control for Large-Scale Research Computing Infrastructures”, in *NSF CICI PI Meeting*, Arizona State University, 2024. [\[pdf\]](#)

ACADEMIC SERVICES

- **Organizing Committee Member (Web Chair)**, ACM SACMAT’25 2025
- **External Peer Reviewer:** ASIACCS’25, CODASPY’25, SACMAT’24-25, CSET’24, MTA 2024-2025

MENTORSHIP EXPERIENCE

- Riya Dhuri, **High School Intern**, BASIS Chandler High School, Arizona Summer 2024
 - * Conducted a retrospective study exploring young adults’ maturation toward social media safety and privacy
 - * ASU: High School Internship, Cybersecurity and Trusted Foundations
- Deepika Moola, **High School Intern**, Pinnacle High School, Arizona Summer 2024
 - * Conducted a mixed methods analysis understanding how people on the internet talk about online safety and privacy, by exploring several subreddits including r/privacy, r/cybersecurity, r/redscarepod, etc.
 - * ASU: High School Internship, Cybersecurity and Trusted Foundations
- Sri Varsha Nagulanchi, **Master of Science**, Texas A&M University-Corpus Christi Spring 2024

SCHOLARSHIPS AND AWARDS

– President of India Gold Medal, University Topper (Undergraduate)	Dec 2022
– IEST Silver Medal, Department Topper (Information Technology)	Dec 2022
– ASU New American University Scholarship	Aug 2022
– Swami Vivekananda West Bengal Government Merit Scholarship	Aug 2018
– G.P Birla Merit Scholarship	Aug 2018
– State Board Topper – West Bengal Council of Higher Secondary Exam	Jun 2018
– State Board Topper – West Bengal Board of Secondary Exam	May 2016

EXTRACURRICULAR ACTIVITIES

- Member, Fulton Academic Integrity Matters (FAIM) Program, ASU Tempe Fall 2023–Current
Served on the academic integrity appeal hearing committee alongside esteemed faculty members.
- Member, Programming and Activities Board (PAB), ASU Tempe Fall 2023–Spring 2024
Contributed to the success of numerous vibrant college events as an integral member of the organizing committee.
- Member, Senate Undergraduate Committee (SUGC), IEST, Shibpur Fall 2019–Spring 2022
Played an integral role in the committee dedicated to addressing a range of academic issues.