ARJUN ARUNASALAM

250 N University St, West Lafayette, IN 47907

aarunasa@purdue.edu ◇ https://arjunaru97.github.io/ ◇ (734) 263-5318

OVERVIEW

4th year CS Ph.D. student in *Human-Centered Security and Privacy*, working under Dr. Z. Berkay Celik at Purdue. My scholarship uses qualitative and quantitative methods to study abuse on online platforms, such as social media and e-commerce environments, for both general users and at-risk groups.

SKILLS

Research Interests

- UX, HCI, Human-Centered S&P

Methods

- Survey design, Quantitative statistics, Qualitative coding, Focus groups, Interviews, Web crawling

Programming Languages

- Python, C++, Go

Relevant Coursework

- Data Mining, Algorithm Design, Information Security

EDUCATION

Purdue University **2020 - Present**

- Ph.D. Student in Computer Science (GPA: 4.0/4.0)
- Advisor: Professor Z. Berkay Celik
- Research Area: Human-centered Security and Privacy

University of Michigan, Ann Arbor **2016 - 2020**

- B.S.E in Computer Engineering (*summa cum laude*, 3.77/4.00)

RESEARCH AND PROFESSIONAL EXPERIENCE

Research Assistant - Purdue University **2020 - Present**

- Studying human-centered S&P
- Investigated toxic content against vulnerable populations
- Investigated online abusive activities on content-hosting platforms (e.g., YouTube) and e-commerce platforms (e.g., Amazon)
- Disseminated research through top-tier academic conference papers

Research Intern - IBM Research **2019 - 2020**

- Worked on static analysis for microservice/container-applications in cloud services.
- Developed security analytic APIs in IBM's Code Risk Analyzer project.

PROFESSIONAL ACTIVITIES

External Reviewer

- Network and Distributed System Security (NDSS), 2023
- IEEE Symposium on Security and Privacy (Oakland), 2023
- USENIX Security Symposium, 2023
- ACM Conference on Computer and Communications Security (CCS), 2023

TEACHING EXPERIENCE

Guest Lecturer

- CS590 IoT & CPS Security, Purdue University, Spring 2022
  Topic: User Studies in Security & Privacy Research

Teaching Assistant - Awarded Graduate Teaching Award (Oct 2023) for services

- CS390 Greater Issues in Computer Science, Purdue University, Fall 2023
- CS188 Programming With Multimedia Objects, Purdue University, Fall 2022
- CS188 Programming With Multimedia Objects, Purdue University, Summer 2021
- CS188 Programming With Multimedia Objects, Purdue University, Fall 2020

STUDENT RESEARCH ADVISING

Varun Gannavarappu	B.S. CS, Purdue University	2021-2023
Yufan Chen	M.S. CS, Purdue University → ByteDance	2022-2023
Eliz Teckan	M.S. CS, Purdue University → Vestel	2021-2022
Jason Perry	B.S. CS, Purdue University → Google	2020-2022

* CS: Computer Science

PEER-REVIEWED PUBLICATIONS

Conferences are the primary academic publishing venues for computer scientists.

Conference Publications

∗ denotes equal contribution

C5 **Arjun Arunasalam***, Habiba Farrukh*, Eliz Tekcan*, and Z. Berkay Celik
Understanding the Security and Privacy Implications of Online Toxic Content on Refugees,
Proceedings of the **USENIX** Security Symposium, 2024 (to appear).

C4 Reham Mohamed, **Arjun Arunasalam**, Habiba Farrukh, Jason Tong, Antonio Bianchi, and Z. Berkay Celik
ATTention Please! An Investigation of the App Tracking Transparency Permission,
Proceedings of the **USENIX** Security Symposium, 2024 (to appear).

C3 **Arjun Arunasalam***, Andrew Chu*, Muslum Ozgur Ozmen, Habiba Farrukh*, and Z. Berkay Celik
The Dark Side of E-Commerce: Dropshipping Abuse as a Business Model,
Proceedings of the Network and Distributed System Security Symposium (**NDSS**), 2024 (to appear).

C2 Yufan Chen*, **Arjun Arunasalam***, and Z. Berkay Celik
Can Large Language Models Provide Security & Privacy Advice? Measuring the Ability of LLMs to Refute Misconceptions,
Proceedings of the Annual Computer Security Applications Conference (**ACSAC**), 2023 (to appear - Preprint).

C1 Andrew Chu*, **Arjun Arunasalam***, Muslum Ozgur Ozmen, and Z. Berkay Celik
Behind the Tube: Exploitative Monetization of Content on YouTube,
Proceedings of the **USENIX** Security Symposium, 2022 - Paper Here