ANANTA SONEJI

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Education

Doctor of Philosophy, Computer Science **GPA: 4.00**
Ira A. Fulton School of Engineering, Arizona State University, Tempe 2019 – Present
Advisor: Dr. Adam Doupé
Tentative Thesis Title: Understanding Users' Security and Privacy Thoughts through Qualitative Analysis

Master of Computer Science **GPA: 4.00**
Ira A. Fulton School of Engineering, Arizona State University, Tempe 2017 – 2019

Bachelor of Technology in Information and Communication Technology
(Honors with Minor in Computational Science) **GPA: 7.81/10**
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), India 2013 – 2017

Peer-reviewed Publications

- "I feel physically safe but not politically safe": Understanding the Digital Threats and Safety Practices of OnlyFans Creators. [final draft]
  Ananta Soneji, Vaughn Hamilton, Adam Doupé, Allison McDonald, and Elissa M. Redmiles
  [*Received acceptance at USENIX Security, 2024*]

- "Nudes? Shouldn't I charge for these?": Motivations of New Sexual Content Creators on OnlyFans. [pdf]
  Honorable Mention (Top 5%)
  Vaughn Hamilton, **Ananta Soneji**, Allison McDonald, Elissa M. Redmiles.
  In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI'23), Hamburg, Germany, April 2023

- "Flawed, but like democracy we don't have a better system": The Experts' Insights on the Peer Review Process of Evaluating Security Papers. [pdf]
  Ananta Soneji, Faris Bugra Kokulu, Carlos Rubio-Medrano, Tiffany Bao, Ruoyu Wang, Yan Shoshitaishvili, Adam Doupé.
  In Proceedings of the 43rd IEEE Symposium on Security and Privacy (Oakland), San Francisco, CA, May 2022

- Matched and Mismatched SOCs: A Qualitative Study on Security Operations Center Issues. [pdf]
  Faris Bugra Kokulu, **Ananta Soneji**, Tiffany Bao, Yan Shoshitaishvili, Ziming Zhao, Adam Doupé, and Gail-Joon Ahn.
  The 26th ACM Conference on Computer and Communications Security (CCS), London, UK · Nov 1, 2019

Work Experience

Graduate Research Assistant, Security Engineering for Future Computing lab (SEFCOM), ASU **May'18 – Present**

- Research focused on **qualitative *investigation, comprehension, and mitigation of security and privacy issues and concepts from the human perspective***
- Published ***four*** peer-reviewed academic papers at ***top-tier conferences*** such as ***IEEE S&P (Oakland), USENIX Security, ACM CCS, and ACM CHI***
- Leading and managing research projects across the study life cycle: literature review, research goals and questions, study design, data collection, data analysis, reporting insightful results, and designing analysis-driven recommendations
- Collecting participant data primarily through interviews and performing data processing to refine collected data for further data analysis following institutional ethical policies and procedures designed for human research studies
- Developing Code Systems for qualitative data analysis in Google Sheets and MAXQDA (Qualitative data analysis software)
- Synthesizing and translating research findings to design recommendations and ignite further research as well as discussions
- Authoring and publishing academic publications in the area of human factors and usable security

Applied ELSI Research Intern, Sage Bionetworks (Remote) **Jan'23 – May'23**
Internship Advisor: Megan Doerr

- Selected to evaluate the "health" of data collection process for the All of Us research program (NIH)
- Led interactive remote focus groups with program stakeholders to identify community sourced metrics and derive novel evaluation criteria for development and testing
- Coded qualitative data using Delve (qualitative coding web-based platform for collaborative coding)
- Analyzed focus group data and shared insights through reports and presentations

Research Intern, Max Planck Institute for Software Systems **Jan'22 – Apr'22**
Internship Advisor: Dr. Elissa M. Redmiles

- Analyzed interview data of OnlyFans (a web-based social media platform) creators, identifying major themes in motivations, business models, online threat models, and safety strategies
- Performed literature review to gain relevant background knowledge in gig economy, content creation, and sex work
- Developed a Code System in MAXQDA through an iterative open coding process
- Collaborated with fellow research associates to refine the Code System by forming clear definitions for top categories, removing redundancies, and calculating ongoing inter-coder reliability scores
- Identified major themes about creators' motivations for creating content on OnlyFans, business models, pricing strategies, promotion strategies, content creation strategies, compliance and understanding of terms of service, online risks, safety and privacy strategies, and coping mechanisms from negative experiences
- Published two qualitative works exploring : 1) motivations of OnlyFans creators (new to sex work) to join the platform and create and share sexual content and 2) understanding the digital threats and safety practices of OnlyFans creators

Professional Services

- Program Committee Member, CSET 2024
- Poster Jury, SOUPS 2024
- External Reviewer, CHI 2024
- Program Committee Member, CSET 2023
- Mentoring Junior Co-Chair, SOUPS 2022

Teaching Experience

- Teaching Assistant, CSE 365: Introduction to Information Assurance, ASU Fall '21
- Teaching Assistant, CSE 110: Principle of Programming (Java), ASU Fall '17

Mentoring Experience

- Ph.D. Students, SEFCOM, ASU – Souradip Nath, Irina Ford
- Undergraduate Student, ASU – Easton Kelso

Scholarships

- ASU Engineering Graduate Fellowship – 2018, 2019, and 2020

Research Skills

- Proficient in qualitative data analysis using MAXQDA, Google Sheets, and Delve
- Strong coding skills in Python, Java, R, C/C++
- Web development skills: HTML, CSS, JavaScript, d3.js, Bootstrap
- Experience with software: MATLAB, NetBeans, Android Studio, R, Weka, Eclipse, Tableau, Gephi