

ABHINAYA S B

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EDUCATION

North Carolina State University (NCSU)

PhD in Computer Science; *Advised by Dr. Anupam Das (WSPR lab)*

Raleigh, Aug 2022 - Present

CGPA: 4.00/4.00

Selected Courses: Human-centered security, Computer and Network Security, Research Methods in Human-Centered Computing, Cryptography, Software Security, Advanced network security

National Institute of Technology, Tiruchirappalli (NIT Trichy)

India, Jul 2015 - May 2019

Bachelor of Technology (Honours) in Computer Science and Engineering

CGPA: 9.74/10.00

SKILLS

Programming C, C++, Python, Java, Tensorflow, HTML/CSS, Javascript, Three.js, Angular.js
Software Android Studio, MATLAB, Network Simulator, Trace32, Zotero, L^AT_EX
Methods Survey Design, Interview Design, Qualitative Analysis

WORK EXPERIENCE

NC State University, Dept. of Computer Science

Raleigh, Aug 2022 - Present

- **Research Assistant** in Prof. Anupam Das' group: Perform Usable Security and Privacy Research in Virtual Reality.
- **Teaching Assistant** for CSC 433 Privacy in the Digital Age (Spring '23), CSC 326 Software Engineering (Fall '22)

Qualcomm, Software Architecture team

Bengaluru, India, Jul 2019 - Jun 2022

- **Engineer:** Designed a prototype to overcome resource availability constraints for concurrent workloads on the Neural Signal Processor (NSP); added support for testing the NSP across 2 simulators, 1 emulator, 2 Linux and 1 Windows based platforms.
- **Associate Engineer:** Developed a suite of tests and support tools for Snapdragon's NSP that identified 5 critical HW issues; presented work at internal conferences, Qbuzz (India) and ML Summit (international) with 3K+ total attendees.
- **Interim Engineering Intern:** Analyzed Google's Pixel Visual Core based image capture to derive architectural insights.

RELEVANT PUBLICATIONS

- "What are they gonna do with my data?": Privacy Expectations, Concerns, and Behaviors in Virtual Reality
Abhinaya S.B., Abhishri Agrawal, Yaxing Yao, Yixin Zou, Anupam Das
Privacy Enhancing Technologies Symposium (PETS), Jul 2025. [preprint]
- Unveiling Users' Security and Privacy Concerns Regarding Smart Home IoT Products from Online Reviews
Taufiq Islam Protick, Aafaq Sabir, Abhinaya S.B., Aiden Bartlett, Anupam Das
ACM Journal on Computing and Sustainable Societies, Aug 2024. [paper]
- Enabling Developers, Protecting Users: Investigating Harassment & Safety in VR
Abhinaya S.B., Aafaq Sabir, Anupam Das
USENIX Security Symposium, Aug 2024. (Acceptance Rate: 18.3%) [paper]
- Understanding Parents' Perceptions and Practices Toward Children's Security and Privacy in Virtual Reality
Jiaxun Cao, Abhinaya S.B., Anupam Das, Pardis Emami-Naeini
IEEE Symposium on Security and Privacy, May 2024. (Acceptance Rate: 17.8%) [paper]

AWARDS & FELLOWSHIPS

USENIX Security'24 Diversity Grant: Awarded 625 USD to attend USENIX Security Symposium in Aug 2024

Graduate Merit Award: Awarded 3000 USD by the College of Engineering, NCSU in Mar 2024

RSA Security Scholar: Selected as a Security Scholar to attend the RSA conference, in Nov 2023

Graduate Enhancement Award: Awarded 2850 USD by the College of Engineering, NCSU in Apr 2023

North Carolina State University Graduate Fellowship: Awarded 4000 USD by NCSU in Feb 2022

LEADERSHIP

Interview Prep Committee Member, Women in Computer Science *WiCS*, NC State University **2023-24**
Vice President, Public Relations, *Qonverse*, Toastmasters club at Qualcomm, Bengaluru, India **2021**
Manager, *Content for Pragyan & Computer Science and Engineering Association*, NIT Trichy **2018-19**