Priya Naphade

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pnaphade.github.io

Education

B.S.E. in Computer Science 2020 – 2024
Princeton University, GPA 3.85

- Relevant courses: Information Security, Advanced Programming Techniques, Economics and Computing, Reasoning About Computation, Introduction to Programming Systems, Data Structures and Algorithms, Introduction to Data Science, Linear Algebra, Multivariable Calculus
- Minor in music (vocal performance)
- Activities: Chamber Choir, COS 226/217 Teaching Assistant, Women's Rugby Team (2021-2023)

Work Experience

Offensive Security Research Intern June 2023 - August 2023
Intel Corporation

- Designed novel approaches for performing bug deduplication after fuzzing campaigns
- Performed a literature review of deduplication techniques and pitched a new approach to my team
- Wrote two proof-of-concept C programs to demonstrate how my approach would improve current approaches
- Presented contributions to the Intel Product Assurance & Security team
- Wrote thorough documentation to ensure my work can be reproduced and expanded in the future

COS 226 / 217 Teaching Assistant September 2022 – April 2023
Princeton Department of Computer Science

- Guided students through debugging programming assignments for COS 226 (Data Structures and Algorithms) and COS 217 (Introduction to Programming Systems)
- Reviewed code in Java, C, and ARM assembly language

Full Stack Developer September 2022 – January 2023
Independent Project - TackleMate

- Developed a web app to provide personalized feedback on user-inputted videos of rugby tackling drills
- Used Google's MoveNet Lightning pose estimation model to detect locations of body keypoints
- Evaluated literature on common characteristics of unsafe tackles to select areas for feedback: tackle height, acceleration into contact, and arm wrapping

Undergraduate Researcher June 2022 - July 2022
Princeton-Intel Research Experience

- Researched adversarial patches, stickers which can be applied to images or real-world objects to cause misclassification when fed to image recognition models
- Began developing a framework which does not rely on a particular model architecture or knowledge of the patch size to defend against adversarial patches

Technical Skills

Beginner • Intermediate • Advanced

C	Git	Wireshark	HTML / CSS	SQL
Java	AFL++ Fuzzing	ARM Assembly	JavaScript	MATLAB
Python	Bash	Computer Forensics	Flask	R

Awards and Certifications

(Estimated completion September 2023) Studying for CompTIA Security+ Certification
Profiles in Intellectual Generosity McGraw Center for Teaching and Learning