

Ali Raza

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Research Interests

My research interests lie in the intersection of computer security and low-level systems. I am interested in the security vulnerabilities posed by systems and language formal specifications, and how they can be exploited. For now, I am working on my FYP thesis that is about reproducing CVE-2019-2215 which is the Use After Free vulnerability in Android Kernel's Binder IPC subsystem.

Education

PUCIT - University of the Punjab Bachelor of Science - Computer Science <ul style="list-style-type: none">Expected graduation: July 2023GPA: 3.65/4.0	September, 2019 – Present Lahore, Punjab, Pakistan
Punjab Group of Colleges, Okara Campus Intermediate of Computer Science with Physics <ul style="list-style-type: none">Graduated with 3rd position in BISE Sahiwal.	2017 - 2019 Okara, Punjab, Pakistan

Research Experience

Vulnerability Research and Exploit Development for Android Kernel July, 2022 – Present PUCIT - University of the Punjab <ul style="list-style-type: none">Supervisor: Dr. Muhammad Arif ButtFormulated the idea and initiated the research projectWorked on problems related to memory errors in binariesWorking on analysing Linux kernel
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Professional Experience

Teaching Assistant (Operating Systems) PUCIT - University of the Punjab <ul style="list-style-type: none">Designed material and coursework for the newly introduced lab component of the subjectDesigned exam papers for the labAssisted students in the lab + other TA responsibilities	October, 2022 – Present Lahore, Punjab, Pakistan
Programming Tutor Freelance on Fiverr <ul style="list-style-type: none">Teaching low level programming concepts in CTeaching object oriented programming in C++	April, 2022 – Present Fiverr.com

Skills

Programming Languages: C, Python, Java, C#, x86-64 Assembly

Security: Binary Exploitation, Reverse Engineering

Tools: IDA, GDB, GNU/Make

OS: GNU/Linux, MacOS, Windows + WSL