

Abdul Qadir

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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 design flaws, and how they can be exploited.

Education

PUCIT - University of the Punjab Bachelor of Science - Information Technology <ul style="list-style-type: none">Expected graduation: July 2024GPA: 3.0/4.0	December, 2020 – Present Lahore, Punjab, Pakistan
Govt. Degree College for Boys Sharaqpur Sharif FSc Pre-Engineering	2018 - 2020 Sharaqpur Sharif, Punjab, Pakistan
Govt. Pilot Secondary School Matriculation	2015 - 2017 Sharaqpur Sharif, Punjab, Pakistan

Professional Experience

Teaching Assistant (Operating System) PUCIT - University of the Punjab <ul style="list-style-type: none">Redesigned material and coursework for the lab of the subjectAssisted students in the lab + other TA responsibilities	January, 2024 – Continue Lahore, Punjab, Pakistan
Teaching Assistant (Operating System) 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	August, 2023 – December 2023 Lahore, Punjab, Pakistan
Teaching Assistant (Data Structures & Algorithms) PUCIT - University of the Punjab <ul style="list-style-type: none">Assisted students in the lab + other TA responsibilities	August, 2023 – December 2023 Lahore, Punjab, Pakistan
Teaching Assistant (Object Oriented Programming) PUCIT - University of the Punjab <ul style="list-style-type: none">Assisted students in the lab + other TA responsibilities	January, 2023 – May 2023 Lahore, Punjab, Pakistan

Projects

Linux Kernel Exploitation & Docker Escape (Continue..) C, Python, x86-64 Assembly

<https://github.com/0xnull007/linux-kernel-exploitation>

- Includes all exploits that I have written during learning binary & kernel exploitation.
- Supervisor: Dr. Muhammad Arif Butt
- Worked on stack & heap-based memory errors in binaries
- Worked on reversing binaries using IDA Freeware
- Worked on sandboxing implementation in modern Operating systems
- Will analyze CVE-2022-0185 (Heap-based Buffer Overflow in Linux Kernel file system)

Real-time Object Detection with YOLO v4: Cat and Dog Recognition Python

<https://github.com/ideaRunner/yolo-pet>

- Developed and trained a YOLO v4-based machine learning model for real-time detection of cats and dogs in both images and videos

Hotel Management System JavaScript, Node Js, MySQL

<https://github.com/0xnull007/Hotel-managemant-System>

- A full stack web app for a hotel with an admin panel to manage all hotel's services e.g, room booking, employee hiring etc.
- In this project, I served as a group leader and was responsible for utilizing Node js and MySQL.

Extracurriculars & Volunteering

Lead PUCIT - University of the Punjab

Cyber@PU - Unofficial PUCIT Cyber Security Community

2023 – Present

- Faculty Contact: Dr. Muhammad Arif Butt
- Work with GDSC PUCIT to organize workshops and seminars

Cyber Security Lead PUCIT - University of the Punjab

Google Developer Student Clubs

2023 – Present

- Conducted workshops on Cyber Security and low-level systems
- E.g. Intro to CTFs, Stack-based memory corruption and Buffer Overflows.
- GitHub Repo CyberSecWorkshop

University Lead PUCIT - University of the Punjab

BSides Pakistan

2023 – Present

- Responsible for building a community of security enthusiasts at my University

Skills

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

Security: Binary Exploitation, Reverse Engineering

Tools: Git, Ghidra, Radare Cutter, GDB, GNU/Make

OS: GNU/Linux, Windows + WSL

Cloud: AWS, GCP, Azure Fundamentals

Courses & MOOCs

pwn101: TryHackMe

Networking Basics: Cisco + Coursera

Cloud Computing Fundamentals: GCP