

# Abdul Qadir

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## Research Interests

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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

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

## Professional Experience

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<b>Malware Researcher</b> Ebryx (Pvt.) Ltd. <ul style="list-style-type: none"><li>Worked on Linux Kernel Exploitation</li></ul>	April, 2024 – Present Lahore, Punjab, Pakistan
<b>Teaching Assistant (Operating System)</b> PUCIT - University of the Punjab <ul style="list-style-type: none"><li>Redesigned material and coursework for the lab of the subject</li><li>Assisted students in the lab + other TA responsibilities</li></ul>	January, 2024 – Continue Lahore, Punjab, Pakistan
<b>Teaching Assistant (Operating System)</b> PUCIT - University of the Punjab <ul style="list-style-type: none"><li>Designed material and coursework for the newly introduced lab component of the subject</li><li>Designed exam papers for the lab</li><li>Assisted students in the lab + other TA responsibilities</li></ul>	August, 2023 – December 2023 Lahore, Punjab, Pakistan
<b>Teaching Assistant (Data Structures &amp; Algorithms)</b> PUCIT - University of the Punjab <ul style="list-style-type: none"><li>Assisted students in the lab + other TA responsibilities</li></ul>	August, 2023 – December 2023 Lahore, Punjab, Pakistan
<b>Teaching Assistant (Object Oriented Programming)</b> PUCIT - University of the Punjab <ul style="list-style-type: none"><li>Assisted students in the lab + other TA responsibilities</li></ul>	January, 2023 – May 2023 Lahore, Punjab, Pakistan

## Projects

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### **Linux Kernel Exploitation & Container 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
- Studied userspace stack & heap-based vulnerabilities
- Worked on reversing binaries using IDA Freeware
- Worked on sandboxing implementation in modern Operating systems
- Studied Linux kernel mitigations
- Analyzed CVE-2022-0185 (Heap-based Buffer Overflow in Linux Kernel file system) and wrote Proof of Concept

### **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

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### **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

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**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

## Courses & MOOCs

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**pwn101:** TryHackMe

**Networking Basics:** Cisco + Coursera