

# Muhammad Ehsaan Khaliq

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## Research Interests

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My interests lie in strengthen the digital realm, aiming to contribute to the ongoing enhancement of digital security practices. Research revolves around cybersecurity, particularly in the exploration and exploitation of vulnerabilities embedded within Operating Systems.

## Education

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<b>Punjab University College of Information Technology</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>	October, 2020 – Present Lahore, Punjab, Pakistan
<b>Superior College Burewala</b> FSC - Pre Engineering	2018 - 2020 Burewala, Punjab, Pakistan

## Professional Experience

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<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 (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

## Skills

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**Programming Languages:** C/C++, Java, Javascript, Python, x86-64 Assembly  
**Secuirty:** Reverse Engineering, Binary Exploitation  
**Tools:** GDB, Ghidra, IDA, Radare Cutter  
**OS:** GNU/Linux, Windows

## Research Experience

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<b>Linux Kernel Exploitation &amp; Docker Escape (Continue...)</b> <a href="https://github.com/meharehsaan/linux-kernel-exploitation">https://github.com/meharehsaan/linux-kernel-exploitation</a> <ul style="list-style-type: none"><li>Includes all exploits that I have written during learning binary &amp; kernel exploitation</li></ul>	C, Python, x86-64 Assembly August, 2023 - Present
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## Term Projects

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### Socket Programming

Python, Java

<https://github.com/meharehsaan/socketprogramming>

- In Python sockets File Transfer Protocol FTP, Stop and Wait and Go-back-N protocols are implemented in UDP sockets.
- In java sockets Simple java sockets are implemented using streams in java.

### Student Feedback System

Php, Mysql

<https://github.com/meharehsaan/feedbacksystem>

- Its a secure feedback system for the college faculty. Admin is managing all the things and monitoring the feedbacks. All entites login on the same space.

## Extracurriculars & Volunteering

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### Study Coordinator

PUCIT - University of the Punjab

Helping Hands - unofficial PUCIT Society

December, 2023 – Present

- Faculty Contact: Assist. Prof. Abdul Mateen
- Organized Study Sessions and webinars
- E.g. Problem Solving and FYP guidance etc

### Collaborative Workshop Organizer

PUCIT - University of the Punjab

with Google Developer Student Club

- Organized tech workshops
- E.g. Memory Corruption and Buffer Overflows etc
- <https://github.com/meharehsaan/cybersec-workshop>