# MOHD SABIR

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## OBJECTIVE

I'm a computer science student specialization with cyberSecurity, as a student exploring the cyberSecurity field, I'm eager to learn from professionals and apply my problem solving and technical skills to real security challenges. My goal is to build a strong foundation in areas like threat analysis and data protection through hands-on experience.

## EDUCATION

**Bachelor of Technology** 2024-2028
*Indian Institute of Information Technology, Kottayam , CGPA: 7.25*

**Intermediate -** *Cheena Public School* 2022
Percentage: 82.6

**High School -** *Cheena Public School* 2020
Percentage: 86

## SKILLS

**Programming Languages:** C, C++, Java, Python, shell scripting, NodeJS
**Frontend Development:** HTML, CSS
**Core CS Fundamentals:** Operating Systems,Computer Organization, Computer Networks, Object-Oriented Programming, Data Structures, DBMS
**Tools and Technologies:** Git, GitHub, tcpdump, wireshark, BeEF, Nmap, Jupyter Notebook, radare2, GNU debugger(gdu), burpsuite
**Soft Skills:** Critical Thinking, Problem Solving, Teamwork, Time Management

## PROJECTS

**1. Quantum Teleportation — Implementation and Simulation (github-link)**
Implemented and analyzed the quantum teleportation protocol end-to-end using Qiskit and simulators, and prepared documentation/visuals for evaluation and presentation.

- Implemented the 3-qubit teleportation circuit (state preparation, Bell-pair creation, Bell measurement, classical feed-forward corrections) and verified behavior in Jupyter notebooks.
- Simulated ideal runs using Aer/AerSimulator and ran/debugged with IBM Quantum runtime (QiskitRuntimeService) for hardware-compatible execution.
- Computed teleportation fidelity via state tomography (measuring in Z/X/Y bases) and compared ideal vs noisy/hardware results.
- **Tech Stack:** Python, Qiskit (qiskit, qiskit-aer, qiskit-ibm-runtime), QuTiP (where used), Jupyter Notebooks, Matplotlib, NumPy, Git/GitHub, IBM Quantum platform.

**2. Fake Bank APK Detection Using Machine Learning and Docker (github-link)**
Developed a security-focused Android malware detection system to identify fake banking applications (APK files) using static and behavioral analysis. The project analyzes app permissions, package name anomalies, API calls, and signature mismatches to detect phishing and trojanized banking apps, helping prevent financial fraud and credential theft.

- Developed a system to detect malicious and fake banking Android applications.
- Analyzed APK files using static and behavioral analysis techniques.
- Identified indicators such as permissions abuse, suspicious APIs, and certificate mismatches.
- **Tools and Tech**: Android APK Analysis, Python, Reverse Engineering, Static Analysis, and used Docker for safety of my system.

**Some Quantum Algorithms**

- **Super Dense Coding (Available)**

## AWARDS AND ACHIEVEMENT (Available)

- **Hackathon - The escalating IoT Security Crisis** 15 November 2025
  *Participated in UDBHAV(Inter IIIT Hackathon) 2025, a 24-hour national-level hackathon. Collaborated in a 4-member team to build a secure web-based solution. Worked on backend development and security implementation.*
- **Open Source Contributor at GSSoC 2025**
  *Selected as a Contributor for GirlScript Summer of Code (GSSoC) 2025, contributing to open-source projects.*
- **Solved 90+ Data Structures and Algorithms (DSA) problems**