# Muditya Raghav

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## Education

**Gyan Ganga Institute of Technology and Sciences**, B.Tech                    Aug 2019 – May 2023
- CGPA: 9.02 /10.0

## Experience

**QA Associate Engineer**, Reliance Jio Platforms, Hyderabad                    Dec 2023 – March 2025
- Automated **80+ test cases** using <u>Automator AI</u> with **LLMs**, boosting **test coverage by 40%**.
- Enhanced **REST API suites**, fixing **35+ critical bugs** (800+ total), improving **system stability by 25%**.
- Integrated **CI/CD pipelines** with **Jenkins**, accelerating releases by **20%**.

**Software Engineer Intern**, Persistent Systems, Remote                    April 2022 – June 2022
- Automated Excel-based QA workflows using **Python + Pandas**, reducing test time by **90%**.
- Built a **data validation engine** processing **10,000+ rows/test**, improving productivity.
- Developed **cross-functional scripts** adopted by **2 internal teams**, eliminating redundant work.

**Cyber Security Intern**, Cisco Network, Remote                    April 2021 – July 2021
- Conducted **pen-tests** on **3+ live web platforms** using **Burp Suite** and **Nmap**, discovering **5+ critical bugs**.
- Submitted **3 verified reports** to **PayPal's Bug Bounty Program** via **HackerOne**.

## Technologies

**Languages:** Python, JavaScript/TypeScript, SQL, C++ (familiar)

**Technologies:** Selenium, Cypress, Playwright, Postman, Jenkins, REST APIs, MongoDB, Linux, Azure

**Frameworks:** Django, Next.js

## Projects

**QQShare — One-Time Secure File Sharing**                    Web | GitHub
- Built a secure file-sharing tool with **one-time links**, **60-min expiry**, and **100% client-side AES-GCM encryption**, used by **500+ users** in the first week.
- Enabled **auto-deletion post-download**, ensuring **tamper-proof privacy** with zero server-side retention.
- Tech stack: **Next.js 14**, **Tailwind CSS**, **Web Crypto API**; achieved **500+ unique sessions**.

**PainPain — Ransomware PoC**                    Web | GitHub
- Developed a modular ransomware PoC for **cybersecurity training**, featuring **AES (Fernet) encryption**, **file discovery**, and a **Tkinter GUI** with countdown and ransom notes.
- Simulated attacker behavior via a **Flask-based C2 server**, aligned with **MITRE ATT&CK T1486 – Data Encrypted for Impact**. Intended for **ethical research use only**.
- Emulated real-world behavior with a **ransom note**, **countdown timer**, and **payment interface**.

## Publications

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| **AI-Based System to Detect Person and Their Activity in Low-Illuminated Space** | July 2022 |
| **The Future of Payment Systems: Transitioning from REST to gRPC for Improved Efficiency and Security** | March 2023 (Published on ResearchGate) |

## Languages

**English** (Proficient), **Hindi** (Native), **German** (Beginner)