

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, Telangana

Dec 2023 – March 2025

- Automated feature and **functional testing** using advanced LLM in **Web:Automator AI**
- Enhanced **REST API testing** for improved application reliability
- Developed and executed comprehensive **test cases (800+)**, scenarios, and user story validations.
- Executed **functionality, regression, integration, UAT, smoke**, and performance testing for robust software validation.

Software Engineer Intern, Persistent Systems – Remote

April 2022 – June 2022

- Automated **Excel-based testing** workflows, streamlining **complex data analysis and manipulation**
- Achieved a significant **90%** reduction in testing durations, streamlining a **3-hour** process to just **30 min.**
- Employed **Python3**, complemented by **Pandas**, for adept data handling and script optimization

Cyber Security Intern, Cisco Network – Remote

April 2021 – July 2021

- Performed penetration testing on E-commerce platforms using tools like **Burp Suite and Nmap**
- Stepped into the realm of bug bounty, contributing to Paypal's **vulnerability identification program** via HackerOne

Technologies

Languages: Python, JS/TS, Selenium (Web UI Testing), (Cypress and playwright), SQL, C++ (familiar)

Technologies: Azure, Web Drivers, RestAPI, Linux, MongoDB, Jenkins (CI/CD Pipeline)

Framework: Django, Next.JS

Projects

QQShare — One-Time Secure File Sharing

Web | GitHub

- Built a secure file-sharing platform enabling **one-time downloads (valid for 60 minutes)** with **100% client-side AES-GCM encryption**.
- Enabled automatic file deletion post-download, ensuring **tamper-proof and ephemeral transfer** of sensitive data.
- Tech stack: Next.js 14, Tailwind CSS, Web Crypto API; **500+ unique sessions in the first week.**

PainPain — Ransomware PoC

Web | GitHub

- Developed a modular ransomware simulator with **AES (Fernet) encryption**, realistic Tkinter GUI, and configurable file discovery.
- Simulated **C2 server interaction** via Flask, mimicking ATT&CK T1486 (**Data Encrypted for Impact**) for cybersecurity training.
- Included a **ransom note, countdown timer, and payment interface** to emulate real-world ransomware behavior.

Publications

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

March 2023

Improved Efficiency and Security (Read : 1000 approx)