

Zeel Gajjar

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Github: github.com/zeefromzee

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Julia, JavaScript

Cybersecurity Tools: Burp Suite, Wireshark, Nmap, Bash

Frameworks / Libraries : OpenCV, Pandas, Matplotlib, Fernet, PyGame, [Electron.js](#)

Core Competencies: Cryptography, Cryptanalysis, Network Security, Web exploitation, Binary exploitation, Statistical Testing, Cyber Forensics

PROJECTS

Quantum Inspired Cryptographic key generator— GITHUB:

github.com/zeefromzee/Quantum-KeyGen

- Developed a sophisticated key generation system combining visual entropy extraction and temporal data inspired by quantum measurement principles.
- Achieved 100% pass rate in NIST SP 800-22 Statistical Test Suite.

Cryptographic key Statistical Test Suite—GITHUB:

github.com/zeefromzee/key-test

- Engineered Python Tool performing 30+ Statistical tests to evaluate cryptographic key quality and security.
- Automated test handling with intelligent skipping for insufficient bit-length scenarios and comprehensive reporting.

Achievements & Activities

1st Place - College Ideathon

- Pitched innovative IoT encryption system, for smart home devices using camera-based entropy generation, hardware entropy and thermal noise to

EDUCATION

Btech in CYBERSECURITY (2028)

M.B.INSTITUTE OF TECHNOLOGY

enable devices to generate their own encryption keys.

Independent Research

Authored comprehensive research paper on cryptographic key generation combining visual entropy (webcam photon noise) and system entropy sources.

Achieved 100% pass rate across all 16 NIST SP 800-22 Statistical tests for 2000+ generated keys. Validated dual-source architecture through 50+ unit tests and demonstrated system maintains cryptographic grade randomness even under webcam occlusion.

Cybersecurity Competitions

Active participant in **PicoCTF** and **OverTheWire**, solving challenges in web exploitation, binary exploitation, and cryptography.

ADDITIONAL INFORMATION

- Self studied quantum physics principles to understand quantum measurement concepts for cryptographic applications
- Passionate about making Cryptography and security concepts accessible.