Sharad Khanna

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Computing security student seeking cybersecurity experience via an internship, co-op, or research project beginning in summer 2022.

EDUCATION

Rochester Institute of Technology   **Sept. 2021 - Present**
B.S./M.S. Computing Security 2026
GPA: 3.94
Dean's List - Fall 2021
Relevant Coursework: Introduction to Cybersecurity, Computer Science for AP and Transfer Students

PROJECTS

Qogchamp, Personal Project   **Sept 2020 — Present**
Developing a Linux rootkit kernel module that subverts the memory, file-management, and networking subsystems within the Linux kernel to accomplish functionality ranging from covert file operations to an invisible remote shell. - https://github.com/mineo333/Qogchamp

Homelab, Personal Project   **May 2021 — Present**
Running a simple Homelab which runs on the XCP-NG with a pfSense firewall. Configured services on such as an IPSec/L2TP VPN service, OpenVPN, and more.

RickOS, Personal Project   **Jul. 2021 — Dec. 2021**
Developed a basic uniprocessor OS. Implemented various low level functionality such as paging, an Interrupt Descriptor Table, a Global Descriptor Table, and a basic heap memory manager. - https://github.com/mineo333/rickos

Blog, Personal Project   **Oct 2021 — Present**
A blog where I talk about various kernel and OS topics such as virtual memory management, page caches, and syscall implementations. - https://mineo333.dev

SKILLS

Operating Systems	Linux, pfSense
Programming Languages	Java, GNU C, Go, Python, x86 Assembly, GNU Make
Binary Exploitation	IDA Pro, Cutter GDB
Networking	IPv4/6, TCP/UDP, OSPF, Nmap, Wireshark
Certifications	CompTIA Security+
Other	Linux Rootkit Development, Linux Kernel Module Development

AWARDS

RIT Presidential Scholarship
Received the most prestigious merit-based scholarship offered by RIT. Awarded to students who have displayed exceptional or outstanding academic achievement.

ACTIVITIES

RITSEC - https://ritsec.club   **Fall 2021 - Present**
Student run computing security club at RIT.
Gave a presentation on my Qogchamp rootkit where I discussed its various features and explained how and why they worked.