Matteen Mahfooz

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TECHNICAL SKILLS

Skills: <u>Advanced in:</u> Python, Java, HTML/CSS/JS, SQL, PHP, Kernel Configuration, Object Oriented Programming, Functional Programming, Bash, OSINT; <u>Proficient in:</u> C
OS/Tools: Linux (Gentoo, Kali, Debian, Arch), Windows, Git, VirtualBox, Adobe, WireShark, Raspberry Pi

EDUCATION

B.S. - Information Technology Concentration Cyber Security,   **Expected Graduation:**
Accelerated Masters Digital Forensics | George Mason University   **May 2025**

- Cumulative GPA: 3.31/4.0
- Dean's List Fall 2023 (GPA: 3.86)
- Classes of Note:
    - Network Security
    - Digital Forensics Analysis
    - Cyber Security of Data and Software
    - Object Oriented Programming
    - Operations of Intrusion Detection for Forensics

Technical Interview Prep Scholarship Program | CodePath and AmazonNext
- Taught fundamentals of solid and self-organized learning, an organized approach to algorithms, and engaging and navigating the hiring process for tech roles

Insane Inventor's Club | George Mason University
- One of the Founder's of Insane Inventor's Club
- Distinguished Quill Award
- Taught how to build computers to students
- Utilized the Computer's we built to aid researchers understand COVID-19, Alzheimer's, Cancer, Huntington's, and Parkinson's with Folding@Home

Hackathon 2023 Event | George Mason University
- Worked in a team to create an extension to calculate grades more efficiently in BlackBoard

EXPERIENCE

Instructor | CodingwithKids   **March 2021 - Present**
- C#, Python, Html/CSS/JS, Java, Lua, Cyber Security and Video/Photo Editing
- Instructing children ages sectioned out from 5 to 18

PROJECTS

Custom Configured OpenRC Hardened Kernel Gentoo System   **June, 2024**

- Fujitsu LifeBook T902 configured kernel manually for a Gentoo Linux laptop, using: UEFI, NetworkManager, Rust, Clang, USE Flags using Portage, linux firmware binary redistributable (for iwlwifi), specified licenses used, accepted keywords, custom environment with separate USE flags for programs that cannot run if put behind hardened security, wayland sway window manager and an encrypted root partition.

RFID-RC522 Hash BruteForcer   **November, 2023**

- Using a Raspberry Pi 4, a breadboard, a RFID-RC522, and a key card I encrypted to have an Authentication key.
- Will attempt to read the message I put onto the keycard. The program attempts descending sequential options, testing every possible option available until the program finds the correct Authentication Key.
- This project is purely <u>proof of concept</u> due to the size of the Authentication Key. Six numbers each 0-255 per number options. 255^6 possible options ($\sim 2.7494199689 \times 10^{14}$), it would take at the current rate, 100 per second, would take ~87,123 years to complete a single full attempt.

Custom Quality of Life Extension for Blackboard | GMU Hackathon   **October, 2023**

- Features of this project included: Custom theming chosen by the user through hexadecimal, and a built in calculator to allow for weighted custom inputs based on grade name
- Example: All of the assignments with the word "Assignment" in it are weighted as 10 percent of the total grade.