Hunter Rick

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EDUCATION

Chico State University — Chico, CA
Bachelor of Science in Computer Science — *Aug. 2019 – Dec. 2022*

PROJECTS

Pathfinder 2e Initiative Tracker | *C++, fastjson, Bash, GNU Make* — January 2023 – Present
- Developed an offline app that handles the initiative rules for the table top role playing gaming pathfinder 2e
- Utilized the fastjjson library to read in JSON formatted character and enemy stat blocks from third party sources
- Tracks turn order, rounds, conditions, and persistent damage for each combatant and allows for automatic rolls of dice based on read in json input
- Speed up pacing of the game as well as handle the games ruleset for the user for ease of use

DES 56-bit Key Cracker with Parallel Computing | *C, mpi, nanoPI, SSH* — February 2022 – June 2022
- Implemented a brute force solution in c with parallel processing to cracking a 56-bit des key to decrypt a text file
- Used 240 cores from two clusters of 30 4-core nanopi's with the mpi library
- Compared runtime speed for linear and parallel solutions at different bit lengths for both worst and best case scenarios
- Predicted and compared theoretical speed increase to real speed increase of runtime with Gustafson's law

HTTP Server hosted Keylogger | *C, mpi, nanoPI, SSH, Fedora Linux* — February 2022 – June 2022
- A white hat hacking keylogger application to expose vulnerabilities in a personal routers security
- Reports text logs of the victim's keystrokes to the hackers desktop via a secretly hosted http server built from a python script with socket programming
- Makes use of selenium's browser automation in headless mode to secretly login to a victim's router and create a port forward to allow for http server hosting
- The hacker then can use a script to retrieve all text logs recorded in a given time frame repeatedly with WGET

TECHNICAL SKILLS

Languages: C++, C, Python, Javascript, SQL, Bash Scripting, Go, HTML, CSS
Frameworks: React, Django
Developer Tools: Docker, Operating Systems, Google Cloud Platform/GCP, VMware, VSCode, GDB, Git, MariaDB, SQLite
Libraries: Selenium, mpi, pthreads, openMP, fastjson, ncurses, QT Creator
Methodologies: Agile, Scrum
Concepts: Data Structures, Verbal and Written Communication, Algorithms, Product Management, Development, Software Engineering, Hardware, Debugging, Testing, Computer Engineering, Architecture, Documentation, Software Development

AWARDS

Dean's Honor List — May 2022
Dr. Blake Wentz, Dean — *Chico, CA*
- Being selected as a recipient of this honor indicates that I have attained a 3.5 GPA or higher for units taken this semester.

WORK

Line Cook — September 2023 – Present
Cinepolis — *Vista, CA*
- Work closely with the kitchen team using communication skills to coordinate and expedite food orders during peak service times
- Interact with customers to accommodate special dietary requests and provide excellent service
- Adhere to strict food safety and sanitation guidelines to maintain a clean and safe kitchen environment
- Monitor and manage inventory levels of food and supplies, ensuring timely ordering and rotation of stock