SHUN HANG RAPHAEL CHUNG

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EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy | NY   May 2024
B.S. in Information Technology and Web Science – Computer Science Track

RELEVANT COURSEWORK

- **Cybersecurity:** Modern Binary Exploitation, Cloud Security, Cryptography and Network Security, Information System Security
- **IT:** Managing IT Resources, Web Science Systems Development, Database Systems, Operating Systems

SKILLS

- **Web Development:** React, Node, JavaScript, HTML, CSS, Bootstrap, PHP
- **Frameworks:** Express, REST API, MongoDB
- **Programming:** Python, C, C++, Java, SQL, MySQL
- **Networking:** Postman, Tor, Wireshark, Powershell
- **Tools:** Git, GitHub, Git Bash, VS Code, Microsoft Office

WORK EXPERIENCE

TESS Asia Limited, Hong Kong

Associate, Information Technology, Part-time Remote from Troy, NY   Jun 2023-Dec 2023
Intern, Information Technology, Hong Kong
- Identified and mitigated 10+ critical vulnerabilities in current application and software libraries through advanced scanning tools, recommending and implementing safer versions to enhance security.
- Revitalized the ISO27001 qualification initiative at TessAsia Limited by establishing a comprehensive framework to evaluate and rectify gaps in policies, licenses, and processes, ensuring compliance with ISO27001 and legal standards.
- Presented detailed findings to senior management and successfully implemented new policies and business practices aligned with ISO27001 standards, significantly enhancing data protection, access controls, and risk management.

PROJECTS

Aircraft Weight & Balance Evaluation Tool, RPI   Jan-May 2024
- Developed a proof-of-concept (POC) web application to enhance ramp agents' cargo loading efficiency using Python ML and airline image data.
- Created the frontend with HTML, CSS, and JavaScript, and assisted in backend development for fire suppression line scanning.

Ken Thompson Hack Recreation, RPI   Jan-May 2023
- Collaborated on recreating an injection of a backdoor into Tiny C compiler's login files, ensuring the hack left no trace and could propagate to future versions.
- Deepened our understanding of code-based attacks and defenses by developing attack methods against a code compiler.

Algorithm Recreation Project, RPI   May-July 2022
- Recreated three algorithms—SRT (Shortest Remaining Time), SJF (Shortest Job First), and FCFS (First Come First Serve)— in Python with 2 team members to better understand their intricacies via reverse-engineering.

Data Analysis, RPI   Jan-May 2021
- Analyzed Twitter conversations about Myanmar's military actions, using a bot to collect and summarize data on social media's influence on emotional responses.
- Set up a bot to collect tweets using a specific hashtag and analyze data into summary points regarding behavior, trend,and influence for the main research paper.

ACHIEVEMENT

CompTIA Security+ (SY0-701)   August 2024
- Certification Number: FYK31B3ZF211Q434

National Cyber League (NCL) Fall 2023 Season   Sept-Dec 2023
- NCL is a cybersecurity competition that challenges participants with real-world problems in cryptography, network traffic analysis, and web application security.
- Individual Game: (Standard Bracket) National Rank: 1253/7934; Total Score: 855/3000;
- Team Game: (Standard Bracket) National Rank: 235/4692; Total Score: 1075/3000;