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LINKS

LinkedIn:
https://www.linkedin.com/in/yong-zi-ren/

Digital Portfolio:
https://yongziren.wixsite.com/you-wont-regret-it

GitHub:
https://github.com/New-President

TECHNICAL SKILLS

Web Application Penetration Testing [Burp Suite, SQLMap, OWASP Zap, Nikto, nmap, XSS, Nettacker, SSLScan, XSStrike, Jo3ker, SQLi, Commix, BeEF]

Server Cloud Security [Securing AWS, Securing Windows Server 2022, Securing Ubuntu Server, Group Policy Management]

Programming Languages [C# (ASP.NET), HTML, CSS, JavaScript (VueJS), Data Base (MongoDB, Firebase), Python (Keras, Tensorflow, Matplotlib), Dart (Flutter), Java]

Malware Analysis [Assembly, Regshot, Process Monitor. Process Explorer, HeapMemView, ApateDNS, SmartSniffer, ProcessThreadView, GDIView, dnSpy]

Digital Forensics [EnCase, RegRipper, FTK Imager, Volatility]

Operating System [Windows XP - Windows 11, Windows Server 2019 - 2022, Ubuntu, Kali Linux, Parrot Security]

Yong Zi Ren

CYBER SECURITY

ABOUT ME

As an aspiring Ethical Hacker, I am highly motivated to apply my skills and knowledge to contribute to the field of cyber security. My interest in this field began when I joined the Robotics Club in school and became fascinated with the vast and ever-evolving world of cybersecurity. I have spent a significant amount of time reading tech news and exploring vulnerabilities in various applications and games, driven by my passion for protecting others' privacy and safety. I am excited about the opportunity to gain practical experience in this field as a Cyber Security Intern and to learn from experienced professionals.

EXPERIENCES

Hybrid Cryptographic System

- Implemented cryptographic concepts and algorithms using Python to ensure Privacy, Authentication, Integrity, and Non-repudiation (PAIN).
- Incorporated symmetric encryption (International Data Encryption Algorithm - IDEA), asymmetric encryption (El-Gamal), and hashing (Whirlpool) in the system.
- Verified message integrity by comparing calculated and obtained message hashes using the sender's and receiver's key pairs generated within the program.

Figurine Cuisine (Secure Software Development)

- Worked on developing a secure web application using ASP.NET as part of a team specializing in secure software development.
- Created essential features for the web application and documented the secure software requirements, design, coding, and testing for the features I developed.
- Presented a reliable, resilient, and secure web application to the organization as part of the project deliverables.

Penetration Testing

- Conducted web application penetration testing and developed project scope and rules of engagement.
- Used various scanning and testing tools to discover vulnerabilities.
- Successfully exploited an XSS vulnerability in the target web application.
- Presented findings and recommendations to the client through a proof of concept case.
- Delivered a pen-test report and video presentations on vulnerabilities, exploitation, and post-exploitation activities to the client and tutor.

Malware Analysis (Chaos Ransomware)

- Conducted dynamic analysis on Chaos Ransomware using various tools to monitor malware behavior, system changes, and network traffic.
- Performed code analysis on the malware to understand its functionality and behavior.
- Developed technical skills in malware analysis and reverse engineering through the project.
- Gained valuable experience in project management, accountability, and teamwork, which have proved useful in subsequent studies and professional pursuits.

IgNight (Mobile Application Development)

- Worked on a team project to develop an Android application, implementing Responsive Layout, Multimedia, and RecyclerView concepts.
- Created and integrated new features, including Main Menu, Side Menu, Video/Voice call, and Delete user functionalities using Java and Jitsi Meet SDK.
- Used Firebase for the database to store and retrieve data for the application.
- Submitted the application to the Google Play Store for approval, resolved issues raised by Google, and published the application live.

SOFT SKILLS

1. Analytical thinking and innovation
2. Active learning and learning strategies
3. Complex problem-solving
4. Critical thinking and analysis
5. Leadership
6. Resilience, Stress tolerance and flexibility
7. Communications
8. Networking

LANGUAGES

English

Chinese

REFERENCES

Dr Divyan Konidala
Ngee Ann Polytechnic
divyan.konidala@gmail.com

Mr Julian Addison
Firemark Collective
julianlukeaddison@gmail.com

Mr Pang Kee Kiat
NUS-NCS Joint Laboratory for Cyber Security
keekiat@nus.edu.sg

WORK EXPERIENCE

NUS-NCS Joint Laboratory for Cyber Security
Junior Research Assistant / Jan 2024 - May 2024
Cyber Analytics Research Intern / Sep 2023 - Jan 2024

- Graph-based vulnerability false positive filtering using MatchCriteriaId
- IDS (Claroty + Security Onion) and SIEM (QRadar) integrations and logs forwarding
- Ansible playbook software information extraction
- Open-source vulnerability database mapping
- Network vulnerabilities identifier using NMAP and Shodan
- Assets Graph generation using NetworkX
- Network typology mapper from pcap file
- Research paper writing

SpeedQ
Software Engineer / Sep 2022 - Apr 2023

- Develop the SpeedQ mobile platform using the Flutter framework based on the Dart language
- Engage in day-to-day technology requirements.
- Help the CTO in coding and troubleshooting.
- Work together with front-end, back-end, and UI/UX designers to ensure design consistencies
- Maintained and developed the company's Node.js server
- Any ad hoc activities for SpeedQ company

Firemark Collective
Data Annotator Intern / Aug 2022 - Oct 2022

- Annotate and label image and video data via computer using various internal software programs.
- Attach metadata (comments, markups, etc.) to image data in accordance with established procedures.
- Provide constructive feedback to business experts on tooling and processes for more efficient labelling, and to improve data quality.
- Maintain ownership of each annotation assignment, and respond to any changes in procedure and auditors.

EDUCATION

Diploma in Cybersecurity & Digital Forensics
Ngee Ann Polytechnic / 2024

CGPA: 3.87/4.0

Clubs and Societies:

· Orion (Publicity) - ORION is an ICT-focused interest group creating outreach events for high school students and managing the school's social media.
· Nullsec (Member) - NullSec is a cybersecurity-focused group within Ngee Ann Polytechnic's School of ICT, conducting workshops and participating in competitions.
· Overflow (Member) - Overflow is a creative platform offering exhibition opportunities, skill development, and a community for creators.
· Buddhist Society (President) - The Buddhist Society at NP introduces Dhamma to students creatively, providing daily life and stress management skills, and welcoming all religions. As the president I have to oversee all the progress of the club and increase new membership by 100%
· Peer Helper Club (Peer Helper) - The Peer Helper CCA Club at NP welcomes students who want to contribute and create a culture of care, offering training and exclusive opportunities to attend events.

ACHIEVEMENTS AND AWARDS

- **Google Career Certificate Scholar** (Dec 2023)
- **Singtel SHINE Cadet Scholar** (Mar 2023)
- **President of Robotics Club** (Jan 2019 - Jan 2021)
- **NP E.P.I.C Award** (Aug 2022)
- **EAGLES Award** (Dec 2020, Dec 2019)
- **National Champion for Robocup 2019 Singapore Open** (Mar 2019)
- **Young Engineer Bronze Award** (Dec 2018)
- **2nd Placing, ALP Challenge 2018 Dancing Robot** (Jan 2018)
- **Bronze Award, 16th Elementz Science Project Competition** (Jun 2017)
- **Finalist, National Coding Championship Junior** (Apr 2017)