ALEX TSAI

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Certifications

CompTIA Security Plus

May. 2023 - May. 2026

Red Team Apprentice Certification (RTAC)

July 2023

Education

Virginia Polytechnic Institute and State University

Aug. 2022 - May 2024(Expected)

Master in Computer Science, GPA 3.8/4.0

Falls Church, VA

Tamkang University (TKU)

Sep. 2016 - Feb 2021

B.S. in Computer Science, GPA 3.2/4.0

Taipei, Taiwan

Work Experiences

Cyber Intern 2023 - Millennium Corporation

June 2023 - July 2023

Cobalt Strike/Mimikatz/Dirb/Nmap/BurpSuite

Hunstville,AL

• Red Team operation Training

- * Successfully executed controlled spear-phishing campaigns, leading to the compromise of two machines and subsequent intranet access.
- * Utilized credential harvesting techniques to pivot across multiple Windows machines, highlighting vulnerabilities in access controls.
- * Established simulated persistent backdoor access on domain controllers and workstations, showcasing potential security threats.
- * Developed a comprehensive security hardening strategy, offering actionable recommendations for bolstering the company's information system.

Software Security Engineer - Sunnet Cyber

Jul. 2020 - Feb. 2021

Ansible Playbook/Proxmox(virtual environment)/Nmap/Metasploit/Hydra/Nessus/Gitlab

Taipei, Taiwan

- Cyber Security Training Platform
 - * Developed an innovative cyber security training platform, reducing 60% development and maintenance time.
 - * Enhancing the features' deployment time by 5 times.
 - * Designed 20 penetration test labs that mimic real-world scenarios.
- Automated Penetration Bot
 - * Implemented a high-concurrency automated penetration bot for efficient security auditing projects
 - * The bot discovered critical vulnerabilities in 100 out of 1500 machines within 1 hour, demonstrating the bot's accuracy and effectiveness
 - * Enabled rapid identification and mitigation of security risks, ensuring a more secure network environment
- Cyber Threat Feed Analyze
 - * Increased 80% productivity compared to manual reporting
 - * Promoted better understanding of potential cyber risks and their implication
 - * Integrated data visualization tools for threat intelligence presentation, supporting informed decision-making

Cloud Solution Architect Intern - Microsoft

Jul. 2019 - Jun. 2020

Azure/Keras/SQLite/python

Taipei, Taiwan

• Product Recommendation System

- * Analyzed over 5 million data points for improving the accuracy and relevance of product recommendations
- * Enhanced user experience and customer satisfaction by providing personalized suggestions based on user preferences and behavior
- Cloud Solution Workshops
 - * Conducted four one-day cloud solution workshops for 100 small and medium tech companies, guiding them in identifying and prioritizing cloud adoption opportunities
 - * Demonstrated the practical use of Azure Logic App, Azure Functions, and Azure API Management in workshop sessions, enhancing participants' understanding of cloud technologies

Projects

Front-Back Separation E-commerce Websites (Individual Project)

Jan. 2022 - Feb. 2022

React/Django-RESTFUL/Redux/Flask/RabbitMQ/Redis

- Developed a visually appealing and user-friendly e-commerce website with front-back separation
- Created six features, including a login/logout/register page, full-feature cart page, product review page, top products carousel page, and admin page, using React
- Built a product review backend service, facilitating efficient collection and management of user reviews
- Synchronized the user data across different databases and improved the browsing speed by five times.