Waris Damkham

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ABOUT ME

As an ICT student immersed in cybersecurity, AI, and software engineering, I've contributed to pivotal projects, such as exploring OAuth 2.0 vulnerabilities and developing an AI-driven COVID-19 screening framework, leading to publications and conference presentations. Eager to further apply my skills and contribute to tech industry innovations, I am actively seeking an internship and subsequent full-time role. Explore my portfolio and additional projects at https://waris-damkham.netlify.app.

SKILLS

Programming Languages: JavaScript, Python, Java, C

Web Development: HTML, CSS, React, Node.js, Spring Boot

Application Security: OAuth Protocols, Digital Forensic

Security Analysis: Wireshark, Burp Suite, nmap

Operating Systems: Windows, macOS, Linux

Deployment & Version Control: Firebase, AWS EC2, Git, Nignx

Artificial Intelligence: Machine & Deep Learning

Penetration Testing: Metasploitable, Kali Linux, OWASP

Data Security: Cryptography, Encryption Algorithms

Language: Thai (Native), English (Intermediate)

EXPERIENCE

RESEARCH INTERN — Ritsumeikan University, Shiga, Japan

Project Title: Detecting Vulnerable OAuth 2.0 Implementations in Android Applications — **MAY 2023 – JULY 2023**

- Conducted a comprehensive investigation into OAuth 2.0 vulnerabilities in Android applications, with a specific emphasis on mitigating CSRF attacks through the strategic use of state parameters.
- Developed an Android application to analytically scrutinize OAuth 2.0 implementations in other applications, providing a thorough examination of their CSRF attack prevention methodologies via multiple browser platforms.
- Positioned research to enhance user data security by identifying, evaluating, and publicly discouraging the use of Android applications vulnerable to CSRF attacks, thereby advocating for robust CSRF defense strategies in OAuth 2.0 implementations.

RESEARCH INTERN — National Central University, Taoyuan, Taiwan

Project Title: Automated COVID-19 Screening Framework Using Deep Convolutional Neural Network with Chest X-Ray Medical Images — **JUNE 2022 – JULY 2022**

- Played a pivotal role in developing an automated COVID-19 screening framework that harnesses the power of chest X-ray images, addressing crucial challenges related to manual infection identification during the pandemic.
- Utilized artificial intelligence and an innovative transfer learning approach for efficient and accurate COVID-19 diagnosis, while implementing Grad-CAM visualization to substantiate predicted diagnoses and enhance model interpretability.
- Shared research findings at the 2022 6th International Conference on Information Technology (InCIT), contributing to the field and paving the way for future developments in automated medical screening.

EDUCATION

MAHIDOL UNIVERSITY — **Thailand**

Bachelor of Science (B.S.): Information and Communication Technology (International Program) — **2020-2023**

PUBLICATIONS

- W. Damkham, T. Thaipisutikul, A. Supratak, J. Kraisangka, P. Mongkolwat, and J. -C. Wang. "Automated COVID-19 Screening Framework via Deep Convolutional Neural Network with Chest X- ray Medical Images." Presented at the 2022 6th International Conference on Information Technology (InCIT), Nonthaburi, Thailand.

- W. Damkham, S. Kunihiro, S. Teerakanok, and T. Uehara. "Detecting Vulnerable OAuth 2.0 Implementations in Android Applications." To be presented at the Workshop on Cyber Forensics, Security, and E-discovery, as part of the 23rd IEEE International Conference on Software Quality, Reliability, and Security. 2023.