Waris Damkham

Information and Communication Technology Student, Mahidol University

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ABOUT ME

Software engineering student specializing in cybersecurity and AI. Led pivotal projects exploring OAuth 2.0 vulnerabilities and developing an AI-based COVID-19 framework, resulting in conference presentations and published research. Seeking an internship or full-time position. 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, Flask, Spring Boot

Databases/Search Engines: MongoDB, MySQL, Elasticsearch

Security Analysis: Wireshark, Burp Suite, nmap

Operating Systems: Windows, macOS, Linux

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

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**

- Analyzed OAuth 2.0 vulnerabilities in Android apps, emphasizing CSRF attacks, and proposed enhancements using strategic state parameters.
- Developed an Android app to examine OAuth 2.0 protocols in existing applications, focusing on their CSRF attack prevention methods.
- Enhanced user data security by identifying and discouraging use of vulnerable apps, promoting stronger CSRF defenses.

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**

- Pioneered the development of an AI-enabled COVID-19 diagnostic system employing chest X-rays, facilitating faster and more accurate pandemic response.
- Applied transfer learning techniques for detailed, swift diagnoses, increasing model transparency with Grad-CAM visualizations.
- Communicated vital findings at InCIT 2022, fostering subsequent innovations in automated medical screening.

EDUCATION

MAHIDOL UNIVERSITY — **Thailand**

Bachelor of Science (B.S.): Information and Communication Technology (International Program) — **2020-2024**

PUBLICATIONS

- Damkham, W., Kunihiro, S., Teerakanok, S., & Uehara, T. (2023). 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.*

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