

# Waris Damkham

## Information and Communication Technology Student, Mahidol University

Bangkok, Thailand • waris.dam@student.mahidol.ac.th • +66 63- 954-4447 • LinkedIn: <https://www.linkedin.com/in/waris-damkham/>

### 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

---

<b>Programming Languages:</b> JavaScript, Python, Java, C	<b>Deployment &amp; Version Control:</b> Firebase, AWS EC2, Nginx, Git
<b>Web Development:</b> HTML, CSS, React, Node.js, Flask, Spring Boot	<b>Artificial Intelligence:</b> Machine & Deep Learning
<b>Databases/Search Engines:</b> MongoDB, MySQL, Elasticsearch	<b>Penetration Testing:</b> Metasploitable, Kali Linux, OWASP
<b>Security Analysis:</b> Wireshark, Burp Suite, nmap	<b>Data Security:</b> Cryptography, Encryption Algorithms
<b>Operating Systems:</b> Windows, macOS, Linux	<b>Language:</b> 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. *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), Nonthaburi, Thailand.*