

# Phornsawan Roemsri

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## EDUCATION

**Doctor of Philosophy, Computer Science**, Texas Tech University, Lubbock, TX, 2020-Present

- Concentration in Network security, IoT and Malware.
- GPA: 4.0

**Bachelor of Engineering, Computer Engineering**, Mahidol University, Bangkok, Thailand, 2015-2019

- GPA: 3.90

## RESEARCH INTERESTS / RESEARCH PROFILE

- 1) *Cyber Security: authentication in web application and ransomware detection*
- 2) *Machine learning*
- 3) *Visualization for Cyber Security*

## WORK EXPERIENCE

**Research Assistant**, Computer Science, Texas Tech University, Lubbock, TX, (2020-Present)

- *Published two papers and accepted to public one paper.*

**National Medicinal Product Catalogue Database**, Bangkok, Thailand, (2019)

- *Was a member of develop team responsible for some UI pages and a part of the database.*
- *Tested the correctness of the program with the requirement of the user.*

**Internship at ExxonMobil Thailand**, Bangkok, Thailand, (2018 – 2019)

- *Collected the requirement and assigned coding tasks to teammates.*
- *Developed two-three small web application projects with a teammate.*
- *Designed and develop the first prototype of the smart locker that the company plans to use for the whole company (in and maybe out of the Thailand).*

**Material Management Information System for hospitals project**, Bangkok, Thailand, (2018 - 2019)

- *Attended the meeting with the project manager (professor) to get the requirement and report the progress.*
- *Held team meetings, prioritized work tasks, and assigned tasks to various team members.*
- *Designed the database system, fix other team database designs, and develop the backend part (database server).*
- *Was responsible for the quality of applications delivered for customer orders.*
- *Attended development work prioritization meetings.*

**Automatic weapon detecting and alerting for humans with knives and guns using deep learning algorithm**, Bangkok, Thailand, (2017 - 2018)

- *Be a part of the developer team by collecting the data and training the detection model.*

**Design and Development for logistics Infrastructure and Integrates Information system and Guidelines of Healthcare Big Data for Thailand Digital Economy, Bangkok, Thailand, (2016 - 2018)**

- *Directed team meetings to check on progress, plan code direction and assigned coding tasks to various team members.*
- *Reported the progress to the project manager (professor).*
- *Designed the database system and UI and develop the assigned task.*
- *Collected the requirement directly from the customer.*

**AWARDS / DISTINCTIONS**

**THE ENGINEERING STUDENT TALENT AWARD 2017 (JUN 2017)**

- *The First runner-up and be member of the representative teams from Thailand to join the ASEAN program in India.*

**PUBLICATIONS / PRESENTATIONS / ABSTRACTS**

- **Roemsri, P.** and Hewett, R., 2020, July. Provenance Location-based Authentication in Cloud Computing. In *Proceedings of the 11th International Conference on Advances in Information Technology* (pp. 1-8).
- **Roemsri, P.** and Hewett, R., 2021, October. Device Identification for IoT Security. In *2021 IEEE 6th International Conference on Signal and Image Processing (ICSIP)* (pp. 866-870). IEEE.
- **Roemsri, P.**, Puangpontip, S. and Hewett, R., in press. On Detecting Crypto Ransomware Attacks: Can Simple Strategies be Effective? In *Proceedings of The 6th International Conference on Information and Computer Technologies*.