

Anh Duy Tran

*Ph.D. Student
in Software Security*

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📁 <https://pakkunandy.github.io/>



I am a Ph.D. student in the research group **DistriNet** at the Computer Science department of the **Katholieke Universiteit Leuven** (KU Leuven), under the supervision of **Prof. Wouter Joosen** and **Dr. Koen Yskout**. My research focuses include various subjects in Computer and System Security, mostly in Software Security, Computer and Multimedia Forensics, Malware Analysis, Mobile Security, and Privacy.

Education

- 2022 – Now **imec-Distrinet, KU Leuven, Belgium**
Doctoral Student, Advisor: *Prof. Wouter Joosen & Dr. Koen Yskout*
Research: Applying Automated Threat Modeling Based on Source Code
- 2017 – 2019 **EURECOM and Telecom Paris, (Double Degree), France**
M.Sc.Eng in Communication System Security, Advisor: *Prof. Davide Balzarotti*
Research: Analyzing Memory Images of Unknown Operating Systems
Thesis grade: 20/20
- 2016 – 2017 **John Von Neumann Institute, VNU-HCM, Vietnam**
M.Sc. in Data Science
- 2012 – 2016 **University of Science, VNU-HCM, Vietnam**
B.Sc in Software Engineering, Advisor: *Prof. Minh-Triet Tran*
Research: Location-based Identity Management and Data Leak Prevention
Thesis grade: 10/10. Valedictorian

Work Experience

- 2019 – 2022 **University of Science, VNU-HCM, Lecturer and Researcher**, HCM, Vietnam.
Subject: Software Development and Computer Security
- 2021 – 2022 **Inspire Lab Technology, Part-time Security Engineer**, HCM, Vietnam.
Project: Solona-based DApp.
- 2020 – 2020 **KiteMetric, Part-time Security Consultant**, HCM, Vietnam.
Project: Security Design for Web Application.
- 2019 – 2019 **S3 Group, EURECOM, Intern Scientist**, Nice, France.
Project: Memory Forensics.
- 2014 – 2014 **NEC Corporation, Intern**, HCM, Vietnam.
Project: Android Application Development.

Selected Publications

- ICIS 2022 **Anh-Duy Tran**, Quoc-Trung Nguyen, Anh-Minh Nguyen, Minh-Triet Tran. 2022. MemInspect2: OS-Independent Memory Forensics for IoT Devices in Cybercrime Investigations. IEEE/ACIS 22nd International Conference on Computer and Information Science (ICIS).
- MMM 2022 Hoang Ngan Vo, Khoa D. Phan, **Anh-Duy Tran**, and Duc-Tien Dang-Nguyen. 2022. Adversarial Attacks on Deepfake Detectors: A Practical Analysis. International Conference on Multimedia Modeling (MMM).
- FDSE 2022 Thanh-Nhan Nguyen, Khanh-Mai Dang, **Anh-Duy Tran**, and Kim-Hung Le, 2022. Towards an Attention-Based Threat Detection System for IoT Networks. The annual International Conference on Future Data and Security Engineering (FDSE).
- SIN 2021 Truong-An Tran-Quoc, Minh-Chi Huynh, **Anh-Duy Tran**. 2021. Towards OS-Independent Memory Images Analyzing: Using Paging Structures in Memory Forensics. International Conference on Security of Information and Networks (SIN 2021).
- CIS 2021 **Anh-Duy Tran**, Ngoc-Huy Vo, Quang-Khai Tran, Hai-Dang Nguyen, Minh-Triet Tran. 2021. OS-independent Malware Detection: Applying Machine Learning and Computer Vision in Memory Forensics. International Conference on Computational Intelligence and Security (CIS).
- FDSE 2021 **Anh-Duy Tran**, Minh-Quan Nguyen, Gia-Hao Phan, and Minh-Triet Tran. 2021. Security Issues in Android Application Development and Plug-in for Android Studio to Support Secure Programming. The annual International Conference on Future Data and Security Engineering (FDSE).

Selected Awards

- 2022 Certificate of Outstanding Young Lecturer at HCMUS.
- 2020 Certificate of Merit of Excellent Award in Cyber SEA game 2020, Ministry of Information and Communications.
- 2017 Eiffel Excellent Scholarship for Engineering Student.
- 2016 Second Prize in Vietnam National Competition for Innovation of Students XVIII - Euréka.

Skills

- Technical Java, C/C++, Android (at NEC Corporation), Computer and Software Security, Memory Forensics (at EURECOM), Threat Modeling (at KU Leuven), Hacking skills (for CTF), Teaching skills
- Language Vietnamese (native), and English (fluent)

Services

- Secretary 2021: Vietnam Information Security Association, VNISA.
- Founder 2019: Computer Security Club, HCMUS, VNU-HCMS
- Reviewers 2023: MMM