Anh Duy Tran

Ph.D. Student
in Software Security

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I am a Ph.D. researcher in the research group **DistriNet** at the Computer Science department of **KU Leuven**, under the supervision of **Prof. Wouter Joosen** and **Assoc.Prof. 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 Coprporation**, *Intern*, HCM, Vietnam.
Project: Android Application Development.

Selected Publications

QRS 2023 **Anh-Duy Tran**, Koen Yskout, Wouter Joosen. 2021. AndrAS: Automated Attack Surface Extraction for Android Applications. International Conference on Software Quality, Reliability, and Security (QRS 2023).

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).

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).

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

2023 Best paper award at QRS 2023.

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 Schlarship for Engineering Student.

2016 Second Prize in Vietnam National Competition for Innovation of Students XVIII - Euréka.

Skills

Technical Java, C/C++, Android (at NEC Coprporation), 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

Organizers SCID @ AsiaCCS 2024, Cheapfake Grand Challenge @ ICMR 2024

PC Member MMM 2022, MAPR 2023, SoICT 2023, ICMR 2024, SecDev 2024

Secretary Vietnam Information Security Association, VNISA.

Founder Computer Security Club, HCMUS, VNU-HCMS