

Anh-Duy Tran

*Doctoral Researcher
in Software Security*

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I am a doctoral researcher in the research group **imec-DistriNet** at the Computer Science department of **KU Leuven**, under the supervision of **Prof. Wouter Joosen** and **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 & Prof. Koen Yskout*
Research: Applying Automated Threat Modeling Based on Source Code
- 2017 – 2019 **EURECOM and Polytechnic Institute of Paris - 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

- QRS 2023 **Anh-Duy Tran**, Koen Yskout, Wouter Joosen. 2023. AndrAS: Automated Attack Surface Extraction for Android Applications. International Conference on Software Quality, Reliability, and Security (QRS 2023).
- ACMMM 2022 Quang-Tien Tran, Thanh-Phuc Tran, Minh-Son Dao, Tuan-Vinh La, **Anh-Duy Tran**, Duc Tien Dang Nguyen. 2022. A Textual-Visual-Entailment-based Unsupervised Algorithm for Cheapfake Detection. 30th ACM International Conference on Multimedia (ACMMM).
- 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).
- 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 Scholarship for Engineering Student.
- 2016 Second Prize in Vietnam National Competition for Innovation of Students XVIII.

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

- Organizers SCID @ AsiaCCS 2024, Cheapfake Grand Challenge @ ICMR 2024
- PC Member MMM 2022, MAPR 2023-2024, SoICT 2023-2024, ICMR 2024, SecDev 2024
- Reviewer JISA
- AEC Member ACM CCS 2024, ISSTA 2024.
- Secretary Vietnam Information Security Association, VNISA.
- Founder Computer Security Club, HCMUS, VNU-HCMS