

Dang Khac Minh Le

Website: lkmidas.github.io
Email: dang.le@northwestern.edu
dang.le.7646@gmail.com
GitHub: github.com/lkmidas

- Skillful in Linux system security & software reverse engineering.
- Proven track records in Cybersecurity Competitions.
- Exploring AI's potential in Cybersecurity through DARPA's AIXCC (AI Cyber Challenge).

EDUCATION

Northwestern University

PhD in Computer Science, Advisor: [Dr. Xinyu Xing](#)

Evanston, IL, US

2023–Present

University of Technology (HCMUT), VNU-HCM

B.Eng in Computer Engineering, *Honors Program*, GPA: 9.46/10.00

Ho Chi Minh City, Vietnam

2018–2022

- Thesis: “RISC-V SoC hardware security testing by HDL analysis”

High School for the Gifted, VNU-HCM

Physics Major

Ho Chi Minh City, Vietnam

2015–2018

EXPERIENCE

Teaching Assistant - Northwestern University

US

CS350 - Introduction to Computer Security (Fall Quarter 2024)

CS396 - Advanced Offense and Defense in Cybersecurity (Fall Quarter 2022, 2023)

- Lead lab sessions on the topics of basic cryptography & cryptanalysis, web exploitation, stack-based binary exploitation, advanced heap-based binary exploitation, and basic Linux kernel exploitation.
- Prepared lab exercises and homework projects in the related topics in the form of CTF-style challenges.
- Held Office Hours to assist students on related topics.

Sec3

US

Remote Smart Contract Auditing Intern

Jun 2023–Sep 2023

- Performed auditing work on various real-world Solana-based projects

Northwestern University

Evanston, IL, US

Research Intern under [Dr. Xinyu Xing](#)

Aug 2022–May 2023

- Participated in research projects in the topic of Linux kernel security.
- Lab assistant in Advanced Offense & Defense in Cybersecurity course.

VNG Corporation

Ho Chi Minh City, Vietnam

Security Intern at [BShield Team](#)

Feb 2020–Aug 2022

- Contributed to an LLVM-based obfuscation project for ARM and x86 binaries by researching obfuscation techniques and developing LLVM passes.
- Practiced on other security-related skills such as reverse engineering and hardware hacking.

PUBLICATIONS

1. Guo, Z., **Le, D.**, Lin, Z., Zeng, K., Wang, R., Bao, T., Shoshitaishvili, Y., Doupe, A., Xing, X., “[Take a Step Further: Understanding Page Spray in Linux Kernel Exploitation](#)”, *Proceedings of the 33rd USENIX Security Symposium (USENIX Security)*, Philadelphia, August 2024
2. Wang, Z., Guang, Y., Chen, Y., Lin, Z., Le, M., **Le, D.**, Williams, D., Xing, X., Gu, Z., Jamjoom, H., “[SeaK: Rethinking the Design of a Secure Allocator for OS Kernel](#)”, *Proceedings of the 33rd USENIX Security Symposium (USENIX Security)*, Philadelphia, August 2024
3. Wu, Y., Lin, Z., Chen, Y., **Le, D.**, Mu, D., Xing, X., “[Mitigating Security Risks in Linux with KLAUS: A Method for Evaluating Patch Correctness](#)”, *Proceedings of the 32nd USENIX Security Symposium (USENIX Security)*, Anaheim, August 2023

COMPETITIONS

- **Finalist**, AIxCC - DARPA AI Cyber Challenge (Team *42-b3yond-6ug*) Aug 2024
- **Finisher**, Flare-On 9 Reverse Engineering Contest (as *midas*) Oct 2022
- **21st Place** & **Writeup Prize**, GoogleCTF 2022 (Team *vh++*) Jul 2022
- **Finisher**, Flare-On 8 Reverse Engineering Contest (as *dionadiano*) Oct 2021
- **19th Place** & **Writeup Prize**, GoogleCTF 2021 (Team *vh++*) Jul 2021
- **3rd Place** TetCTF 2021 (Team *efiens*) Jan 2021
- **2nd Prize**, ISITDTU CTF 2020 Final (Team *efiens*) Dec 2020
- **2nd Prize**, ASEAN Student Contest on Information Security Final (Team *NotEfiens*) Nov 2020
- **1st Place**, TetCTF 2020 (Team *efiens*) Jan 2020
- **Consolation Prize**, ASEAN Student Contest on Information Security Final (Team *noobiens*) Nov 2019

SCHOLARSHIPS AND AWARDS

- **Cabell Fellowship**, Northwestern University, McCormick School of Engineering 2023
- **KSYS-CUBE Scholarship**, Kanden System Inc. and Cube System Inc. 2020
- **Vallet Scholarship**, Recontres du Vietnam 2020
- **Student of 5 Merits Award**, Vietnam National University - Ho Chi Minh 2020 & 2021
- **Award for Outstanding Student**, University of Technology (HCMUT), VNU-HCM 2020

RELEVANT EXPERIENCE

- **Student**, [Global Cybersecurity Camp \(GCC\) Tokyo](#) 2020
GCC is an annual 1-week international cybersecurity training programme managed by Japan, Singapore, South Korea, Taiwan, and more countries. During the training, I took part in several lectures on incident response, reverse engineering and exploitation.
- **Mentor**, [Bach Khoa Information Security Club \(BKISC\)](#) 2022–Present
BKISC is a group of students from Ho Chi Minh city University of Technology, passionate by cybersecurity. The group inherited the knowledge and experience of formal members of Efiens, with the goal of creating a playground for all the students who share the same passion.
- **Team Member**, [Efiens Security Club](#) 2019–2022
Efiens is a group of self-taught security enthusiasts who enjoy sharing our knowledge with those interested in learning. We regularly participate in various training activities and cybersecurity contests.

SKILLS

- **Experienced:** Code static analysis, Binary exploitation, Reverse engineering, Smart Contract auditing (Solana), LLM agent for Security tasks
- **Programming Languages:** C/C++, Python, Rust
- **Hardware Description Languages:** Verilog HDL
- **Tools:** IDA, Ghidra, GDB, LLVM
- **Libraries:** Pwntools, Z3Solver, Malduck, LangGraph

LANGUAGES

- **Vietnamese:** Mother tongue
- **English:** Intermediate
 - **TOEIC:** 965/990 (May 2020)
 - **IELTS:** 8.0/9.0 (March 2022)

REFERENCES

Dr. Xinyu Xing

Associate Professor,
Northwestern University
Department of Computer Science
Email: xinyu.xing@northwestern.edu

Dr. Cuong Pham-Quoc

Associate Professor,
Ho Chi Minh City University of Technology
Faculty of Computer Science and Engineering
Email: cuongpham@hcmut.edu.vn

Dr. Khuong Nguyen-An

Associate Professor,
Ho Chi Minh City University of Technology
Faculty of Computer Science and Engineering
Email: nakhuong@hcmut.edu.vn