

Minh-Luan NGUYEN

MASTER'S STUDENT IN CRYPTOGRAPHY AND INFORMATION SECURITY |
FORMER SOFTWARE ENGINEER



Master's student with a software engineering background, eager to apply skills and knowledge in cryptography and cybersecurity research through an internship opportunity.

Areas that I am interested in are *System and Network Security, Software Security, Digital Forensics, Applied Cryptography and Privacy*.

Personal Info

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Honors & Awards

Nov 2024
Rank 7th (Team) at the European Cyber Week CTF Challenge 2024

Apr 2023
Third Prize in AWS Security Jam (Team) - NAB Innovation Centre Vietnam

Apr 2017
Silver medal in Competitive Programming (11th Grade) - 30/4 Le Hong Phong Olympic

Jul 2016
Bronze medal in Competitive Programming - 3rd Southern Summer Camp

Apr 2016
Bronze medal in Competitive Programming (10th Grade) - 30/4 Le Hong Phong Olympic

Work experience

Oct 2021 - Jun 2023
DEK Technologies Vietnam
Software Engineer (Jan 2022 - Jun 2023)

- Developed and maintained microservices for collecting and monitoring system metrics built with Go and Prometheus, deployed with Kubernetes.
- Participated in releasing products monthly with Jenkins and GitLab.
- Provided customer support for product usage issues.
- Collaborated with other teams and stakeholders in Vietnam, Australia, and Sweden.

Intern (Oct 2021 - Jan 2022)

- Contributed to a small team developing a chat app with high availability.
- Utilized Agile method, and engaged with various business roles.

Education

Oct 2023 - Now
University of Limoges, France
Master's degree, Cryptology and Information Security
Master 1: GPA: 15.419/20, Mention: Bien

Oct 2018 - Sep 2022
University of Science, Vietnam National University, Ho Chi Minh City, Vietnam
Bachelor of Science in Software Engineering
GPA: 8.68/10, Classification: Very Good

Oct 2015 - Jun 2018
Hoang Le Kha High School for the Gifted, Tay Ninh, Vietnam
Mathematics specialty, High School Diploma

Skills

- Technical Skills:** Network Security, Security Auditing, Digital Forensics, Cryptography, Software Development, Agile.
- Programming Languages:** C/C++, Javascript, Python.
- Tools & Software:** Ghidra, IDA, Wireshark, Burp Suite, Scapy.
- Technologies & Frameworks:** Node.js, ReactJS, React Native, ExpressJS, MySQL, MongoDB, Docker, Kubernetes, Prometheus.

Projects

• Integration of Ascon cryptosystem in a SoC with FPGA

(Oct 2023 - May 2024)

Tools: FPGA, Verilog, Yosys, C/C++

- A part of the "Software Analysis and Development" Master 1 Project.
- Understanding of the development workflow on FPGA.
- Implemented Ascon cryptosystem.

• Whisper Net

(May 2024)

Tools: Python, Bash

- A project for the "Network Audit and Security" course.
- A tool written in Python, designed for covert communication using the ICMP protocol.

• Proxy Server

(Jan 2024)

Tools: Python, HTML

- A project for the "Network Protocols and Programming" course.
- A simple proxy server with a configurable web interface.
- Use for blocking websites, filtering, and censoring incoming content.

Hexfresh: Gamification in fresher training system

(Oct 2021 - Jun 2022)

Tools: ReactJS, React Native, Node.js, ExpressJS, MySQL, MongoDB

- A capstone project about integrating gamification into a fresher training system.
- Acted as Mobile Developer and Scrum master for a group of 6 people.
- Worked with stakeholders to exchange requirements.

Activities

2018 - 2020

HLK Tech Club, Hoang Le Kha High School for the Gifted

Co-founder

- Organize competitions, tech talk events for high school students to spread knowledge and passion about technology.

Certifications

2019

Vietnam National University - English Proficiency Test: VNU-EPT (264/400)

Additional information

- **Languages:** Vietnamese (Native), English (Professional working proficiency), French (Limited working proficiency)
- **Interests:** Reading book, Photography