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

Apr 2023

Third Prize in AWS Security Jam with NAB Innovation Centre Vietnam (Team)

Apr 2017

Silver medal in 30/4 Le Hong Phong Olympic competition in Computer Science (11th Grade)

Mar 2017

Second Prize in SRobot Open competition, SaigonTech, Vietnam

Jul 2016

Bronze medal in 3rd Southern Summer Camp competition in Computer Science

Apr 2016

Bronze medal in 30/4 Le Hong Phong Olympic competition in Computer Science (10th Grade)

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