

DO Duy Huy Hoang

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EDUCATION

University of Limoges

MSc specialize in Information Security and Cryptography

Limoges, France

Sept. 2020 – Present

University of Science and Technology Hanoi

Bachelor of Science and Technology, Undergraduated: Good

Hanoi, Vietnam

Sept. 2016 – Sept. 2019

High School for Gifted Students, Hanoi Pedagogical University

Vietnam High School Baccalaureate, Information technology class

Hanoi, Vietnam

Sept. 2013 - May. 2016

HONORS & AWARDS

TRACS - Tournoi de Renseignement et d'Analyse de CentraleSupélec 2021 - Rank 32/106

The Science and Technology Scholarship Program for Overseas Study for Master's and Doctoral Degree Vingroup

The 20th Student Scientific Research Prize Eureka 2018

Certificat délivré par Agence pour la Protection des Programmes: Autonomous Maeght field scanner

3D Printer Assembly and Design workshop, The American center - US Embassy Hanoi

Outstanding contribution for USTH's student activities

PRESENTATION

PharoThings: Living programming IoT devices

US Embassy IoT WorkShop

May. 2019

Hanoi, Vietnam

How to build a FDM 3D printer

3D Printing Workshop - US Embassy

July. 2018

Hanoi, Vietnam

EXPERIENCE

Software Developer

USTH ICTLab

July. 2019 – Feb. 2020

Hanoi, Vietnam

- Development of USTH interactive virtual world using Unreal Engine
- Create a 3D interactive virtual world of University of Science and Technology of Hanoi
- Final Thesis and Dissertation: 4/4

Software Developer

Vmodev

May. 2019 – Aug. 2020

Hanoi, Vietnam

- API Experience, Security, Reliability, Performance and Scalability
- Organised and hosted tech/non-tech events at Vmodev

Researcher

USTH ICTLab

Apr. 2019 - Sep. 2019

Hanoi, Vietnam

- Wifi-based Indoor Positioning System using Machine Learning

Intern & Software Developer

USTH ICT Lab & IRD Vietnam

May. 2018 – Jan. 2019

Hanoi, Vietnam

- Make a communication and control system that operates the scanner both from far distance through GSM and transfer data from short distance through Bluetooth
- Co-authored in the article Autonomous Maeght field scanner with Prof. Jean-Luc Maeght

Intern & Software Developer

US Embassy Hanoi

Jun. 2017 – Jan. 2018

Hanoi, Vietnam

- Built multiple FMD 3D printers
- Teached courses about 3D technology and 3D printer assembly

PROJECTS & RESEARCH

- Development of electronic voting** | *Cryptography* Dec. 2021 - Present
- Move towards better service for voters and election organizers by saving time in the electoral process
 - Increase the representativeness of elected officials
 - Improve the technical and legal framework of e-democracy
- Cycle detection algorithms** | *C/C++, Cryptography* Nov. 2021 - Present
- Implement and compare several cycle detection algorithms, applying them to a function of Small hash size
- Thinkpad X1 Carbon 7th Hackintosh** | *ASL* Oct. 2021
- macOS on Thinkpad X1 Carbon 7th Generation
- Steganography with CUDA** | *C/C++, CUDA* Nov. 2020
- Hiding message, file, or even image inside another message, file or image
 - GPU acceleration with CUDA
- CertifPlus** | *Python, Bottle, Openssl* May. 2020
- Developed a distribution process secure electronic certificate
 - Request to create a certificate with their information
 - The authenticity of the certificate issued electronically in the form of an image must be guaranteed
 - Extract and the stamp concealed in the image by steganography and verify timestamp for verification
- Captive Portal** | *Python, Firewall, DNS* Jan. 2020
- Setup a DHCP and DNS server and Configuring Firewall in a precise way to protect the local network
 - Created a log-in page which require authentication commercially provided Wi-Fi

SKILLS

Languages: Vietnamese (Native), English (IELTS 6.5), French (DELF A2)
Programming Languages: Python, C/C++, JavaScript, Bash, HTML/CSS
Industry Knowledge: Security, Cryptography, 3D Printing, Android Developing, Web Developing
Developer Tools: Git, Docker, Linux, Vim