Do Duc Anh Nguyen

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Becoming Networking & Security Expert is one of my crucial goals. I am also looking for disruptive development opportunities in career path, typically PhD scholarship.

Education

Since 2020 **Master of Security Information**, University of Limoges, France.
GPA: 14.877/20 - Top 4 among 20 students

- **Advanced Cryptography:** Learning protocols used for shared secret key (Diffie-Hellman), key generation algorithms (LFSR) and introduction of post-quantum cryptography.

Achieved Score: 16/20

2015–2019 **Bachelor of Engineering in Computer Science**, Ho Chi Minh City University of Technology HCMUT, Vietnam.
GPA: 7.94/10 - HONORS PROGRAM (30 selections among 300 students)

- **Cryptography and Information Security:** Coure of introduction to cryptography (encryption techniques, security attacks,...)

Achieved excellent Score: 9.0/10

- **Traffic Light Control System (Thesis):** Using Deep Reinforcement Learning to implement a model to control the traffic light aiming to reduce the waiting time of vehicles. Built asimulation system, analyzed different models and training strategies.

Achieved excellent Score: 9.6/10

Good feedback from thesis committee and advisor.

Achivements & Scholarships

- **Award Full Scholarship from VinGroup** for studying Master's Degrees of Information Security at University of Limoges, 2020.
- **Scholarships for Outstanding Student** for Semester 2, University of Technology, Academic Year 2018 - 2019.
- **Scholarships for Talent Students in Honors Program**, University of Technology 2016, 2017, 2018.
- **Top 0.1 of achieving the Highest Score Students** in National High School Graduation Examination, 2015.

Skills

- Programming Languages: Java, C/C++, Python, Javascript, HTML, CSS
- English: Full professional proficiency

Work Experience

2018–2020 **Backend Developer**, Zalo Group, HCMC, Vietnam.
Achieved Excellent Score in internship 10/10
- **Built & managed major servers, APIs**
Constructed new features at central servers with using network protocols (HTTPS, TCP, UDP).
- **Code Optimization & Congestion Management**
Evaluated and optimized the system's endurance to handle 100 million requests per day. Managed troubleshoot server congestion (full CPU/RAM/Traffic) and mitigated the errors of traffic congestion in rush hours to no error anymore.
- **Monitoring Tool**
Built a tool to detect incidents of servers (slow/overload/error/dead) and notify admins through an application on their mobile phones. Helped the company to avoid many serious problems thanks to early detections.

2018–2020 **Research Scientist**, ML4U Research Group, HCMUT, Vietnam.
- **Knowledge sharing**
Participated in weekly seminars about Machine Learning coordinated by Dr. Nguyen Duc Dung at HCMUT. Cooperated with a teammate to organized a seminar every two months to present and discuss the topic of Traffic Light Control System.

Course Projects

- **Networking Infrastructure Building**: Working with a team of 2 members. Created two virtual private network containting two VLAN. Configured iptables of virtual routers and create two type of connections: Normal connection through the Internet gateway & Tunnel for VLAN packets from different network.

- **Private Networking Firewall**: Working with a team of 2 members. A real device works as a router connecting to serveral virtual hosts. All the internet requests from these hosts are managed by Firewall set up on router by using iptables. These Requests are redirected to Login page and must be logged on before being authorized to access Internet.

- **Encrypting & Decrypting Application**: Led a team of 3 members. Built an application providing encryption and decryption functions applying algorithms of RSA, DES.

- **Intrusion Detection System**: Working with a team of 3 members. Implemented and trained a Deep Learning Network model to automatically detect most of the networking attacks such as Dos, Prove, etc. Built the program to capture packets and convert them into data form to simulate real-time detection in real environment.

* Demo video: github.com/anhndd/intrusion_detection_system