

NGUYEN DO DUC ANH

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OBJECTIVE

Becoming a professional engineer in the field of IT Security, especially mastering skills of defending.

EDUCATION

Univerisity of Technology, VNU-HCM Vietnam

August 2015 – July 2019

Bachelor of Engineering in Computer Science

GPA: 7.94/10 - HONORS PROGRAM

- **Cryptography and Information Security:** Course of the 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 average waiting time of vehicles. Built a simulation system. Analyzed different models and strategies of training. *Achieved excellent score (9.6/10) in the thesis defense and good feedback from thesis committee and advisor.*

WORK EXPERIENCE

Zalo Group, HCM, Vietnam

June 2018 – June 2020

Backend Development

Vietnams leading internet & technology company

- **Server for Searching Data:** Built an application for searching data using Elasticsearch API. optimized the searching capabilities. *Improved the processing speed 3 times faster.*
- **Worker Controller:** Defined new commands using TCP and built GET&POST protocols using Apache Thrift and Jetty Servlet. Implemented the evaluation work of using resources for each request from the client. Checked and built a cache to optimize the processing speed of old commands. Managed the number of requests and troubleshoot server congestion (full CPU/RAM/Traffic). *Decreased the errors of traffic congestion in rush hours to no error anymore.*
- **Database Accessing Tool:** Built a tool to give permission for an another department to be able to directly interact with the database. *Reduced the time of waiting for permission.*
- **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.*

ML4U Reasearch Group

June 2018 – Present

Research Scientist

University of Technology, Vietnam

- **Knowledge sharing:** Participated in weekly seminars about Machine Learning coordinated by Dr. Nguyen Duc Dung at University of Technology. Cooperated with a teammate to organized a seminar every two months to present and discuss the topic of Traffic Light Control System.

ACHIEVEMENT & SCHOLARSHIPS

Award Full Scholarship from VinGroup for studying Master's Degrees of Information Security at University of Limoges, 2020.

Scholarships for Outstanding Student in University for Semester 2, University of Technology, Academic Year 2018 - 2019.

Scholarships for Talent Students in Honor 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	C++, Python, Keras, Java, HTML, JAVASCRIPT
English	Intermediate

PROJECTS

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

Predicting House Prices: Worked with team of 5 members. Implemented a model with different algorithms to predict the price of house based on analyzing data.

Chatting Application: Led a team of 4 members. Designed UI and implemented features for an Android application with Java.

Smart Light (Global Project Based Learning): Worked with team of 5 members, including Vietnamese and Japanese students. Built an IOT system to control the light by Google's Voice API. Wrote C programs to operate an Arduino circuit.

SOCIAL ACTIVITIES

Green Summer Voluntary Campaign: Participated in building new roads in a poor village of Ben Tre province, Vinh Hoa commune. (June - August, 2017)

Mid-autumn Festival: Organized a Moon Festival for an elementary school with food and handmade lantern in Ben Tre province, Vinh Hoa commune. (October 2016 & October 2017)

The House of Love: Contributed food, handmade toys to orphans and helped them to clean their home in Binh Duong province. (October 2015)