Nguyen Nhu Chien

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ABOUT ME

Currently, I am working as a researcher in Smart network system laboratory, Soongsil university, South Korea. My main research interest is applying machine learning or deep learning to network security and time series forecasting problems to build an intelligent, data-driven network system. My goal is becoming an expert in machine learning, data analysis.

EDUCATION

September 2020 - Present

Master at Soongsil University, South Korea
Major: Information Communication
GPA: 4.26/4.5

August 2014 - June 2018

Bachelor of Engineering at Hanoi University of Science and Technology
Major: Control Automation
GPA: 3.07/4

WORK EXPERIENCE

Sep 2020 - Present

Smart Network System Laboratory
Researcher
Main responsibilities:
- Research and develop Deep learning-based network intrusion detection systems for cloud, (Software-defined network) SDN-based system
- Research and develop Deep learning-based automatic resource scaling systems for cloud computing.

Achievements and skills gained:
- SDN-based network application developing
- Machine learning, Deep learning models designing and optimizing for tabular data classification and time series forecasting problems
- Data analysis by python programming

June 2018 - August 2020

Fpt Software
C++ Software engineer
Main responsibilities:
- Develop and maintain a software for an embedded system used in Logictics

Achievements and skills gained:
- Object-Oriented programming technique
- Designing a software program followed Sigleton pattern
- Multi threading programing techinique
- Human-machine interface designing for embeded systems using QT framework

December 2017 - April 2018

Panasonic R&D Center Viet Nam
Internship
Main responsibilities:
- Research and develop an ID management application leveraging IoT and Blockchain

Achievements and skills gained:
- Blockchain-based applications developing using Hyperledger Fabric framework

March 2017 - December 2017

Viet Nam Academic of Science and Technology
Internship
Main responsibilities:
- Research and develop new control algorithms (Self-tuning Fuzzy PID,Adaptive sliding mode control based on Fuzzy algorithm) for Electro-optical tracking system which has the object-tracking mission.
- Research and develop new control algorithms for 4-wheel omnidirectional robot to do different tasks such as tracking object, moving along trajectory
-Research and develop deep learning-based model for object detection mission of Electro-optical tracking system

Achievements and skills gained:
- C, C++, Matlab programming
- Embedded C programming for AVR microcontroller.
- Image processing using OpenCV library
- Deep learning models designing and optimizing for object detection problems
- Control algorithms designing and implementing

ACTIVITIES

Sep 2014 - Jan 2018

BK-Itec English club
Member of the content preparation team
- Prepare contents of each topic for the club's meeting every week
- Be the host of the club's meeting

PUBLICATIONS

Jan 2022 — Optimizing Resource Scaling in Network Slicing

Nov 2021 — Two-phase Deep Learning-Based EDoS Detection System

Jun 2019	Tracking control for electro-optical system in vibration environment based on self-tuning fuzzy sliding mode control

HONORS & AWARDS

2022	Paper "Optimizing Resource Scaling in Network Slicing" is awarded as Best Paper Award in International Conference on Information Networking (ICOIN) 2022
2018	Third Prize at Scientific Research Contest for Excellent Students with project "Research and Develop CNNs model for automatic path planning mission of Self-Driving car"
2015, 2017	Scholarship for excellent students of Ha Noi University of Science and Technology in 2015 and 2017.

SKILLS

Programming Languages	- 3-year-experience of Embedded C programming for AVR - 3-year-experience of C++ programming - 2-year-experience of Matlab language - 2-year-experience of Python programming for Deep learning applications
Machine Learning Framework	- Tensorflows/Keras, Pytorch, Scikit Learn
Data Analysis Framework	- Pandas, Numpy, Matplotlib
Other	- Apache Spark, SQL, Git
QT Framework	- 1-year-experience of QT Framework
Team-Working	- 2-year- experience of working with a 10-member team following SCRUM protocol