

KHOA NGUYEN, Ph.D.

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PERSONAL SUMMARY

- PhD degree in Electrical and Computer Engineering in Carleton University, Canada.
- More than two-year experience in the IT industry.
- Background in Cloud computing, SDN, NFV, routing & switching, container technologies, network development & automation, orchestrations and wireless networks.
- More than one-year research internship experience in Canada, proposing a parked vehicle edge computing framework based on Kubernetes for online task offloading.
- Experience with network integration, analysis, problem-solving, and creative thinking.
- Proficiency with C/C++, Python, MATLAB, Java, Linux, Git.
- 15 publications including 5 journals, 10 conference papers.

PROFESSIONAL EXPERIENCE

Postdoc Fellow

Mar, 2022 - Present

Carleton University, Ottawa, Canada.

Supervisor: Professor Wei Shi, School of Information Technology

Research Associate

Dec, 2021 - Feb, 2022

Carleton University, Ottawa, Canada.

Supervisor: Professor Changcheng Huang, Department of Systems and Computer Engineering

Research Intern

Jan, 2020 - Mar, 2021

BitQubic Corp., Ottawa, Canada.

This project was funded by NSERC, conducting research on extensible and reliable edge computing infrastructure.

Instructor

Sept, 2013 - Sept, 2015

Can Tho University of Technology, Can Tho, Viet Nam

Teaching the Electronic and Electrical Materials course, and constructing the Electrical and Electronics Engineering Training Program.

Telecommunication Engineer

Mar, 2009 - Nov, 2010

Viettel Telecom Company, Can Tho, Viet Nam

Main duties were consisted of monitoring, configuring, maintaining and resolving technological issues in the Network Operation Center.

Network Engineer (Work package)

Jun, 2008 - Mar, 2009

Vietnam mobile services company (VMS-Mobifone) - Zone 3, Can Tho, Vietnam

The job was involved in monitoring, maintaining, resolving and collaborating with partners to solve technological issues in the Operation and Maintenance Center (O&M), and testing new mobile services.

EDUCATION

Ph.D. in Electrical and Computer Engineering

2015 - 2021

Department of Systems and Computer Engineering, Carleton University, Canada.
Thesis: Distributed and Parallel Metaheuristic-based Algorithms for Online Virtual Resource Allocation.

M.Sc. in Telecommunications Engineering **2012 - 2013**

Faculty of Computer Science, University of Sunderland, United Kingdom.

B.Eng. Degree in Electronics and Telecommunication **2003 - 2008**

College of Engineering Technology, Can Tho University, Vietnam.

SCHOLARSHIPS, AWARDS AND ACHIEVEMENTS

Grants:

- Research Intern at BitQubic funded by Natural Sciences and Engineering Research Council (NSERC) **Jan 2020 - Mar 2021**
- Student Travel Grants to IEEE ICC and GLOBECOM conferences **2021**

Scholarships:

- VIED Scholarship **2014**
- Mekong 1000 Project Scholarship **2010**

Teaching Assistant - Carleton University:

- SYSC5801: Advanced Topic in Computer Communications,
- SYSC5001: Discrete Simulation/Modelling (LEC),
- SYSC2310: Introduction to Digital Systems,
- SYSC2004: Object-Oriented Software Development (LEC),
- ECOR1606: Problem Solving and Computers.

Certificates:

- Neural Networks and Deep Learning - Coursera Certificate **2019**
- Certificate of Mobile Technologies and Services Training Program, Centre for Excellence in Telecom Technology & Management Mumbai **2014**
- Certificate in Teaching Methodology, Can Tho University **2013**

SKILLS

- Strong independent research
- Adaptability
- Management skills
- Strategy development and implementation
- Interpersonal and communications skills