

# Bui Duy Quoc Nghi

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## RESEARCH INTERESTS

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My interests lie at the intersection of Software Mining, Natural Language Processing, and Machine Learning. I am interested in employing the power of Machine Learning to software engineering and programming languages to solve challenging software engineering problem.

## EDUCATION

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Doctor of Philosophy (Ph.D) in Information Systems 8/2016 — 8/2020 (expectation)  
*Singapore Management University*

Advanced Program in Computer Science 9/2009 — 10/2013  
*Ho Chi Minh University of Science - Viet Nam*

## WORK EXPERIENCE

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Chotot - Viet Nam 3/2015 — 5/2016  
*Software Engineer*

Worked as a backend engineer to develop large-scale distributed systems that can handle millions of user requests per day for an e-commerce website.

Atlassian - Viet Nam 1/2014 — 2/2015  
*Software Engineer*

Worked as a software engineer in JIRA team to develop useful libraries and features for internal usage.

Kwangwoon National University - Korea 8/2013 — 1/2014  
*Research Assistant*

Got a research scholarship to work as a research assistant at Distributed Computing lab. The topic is about the applications of Network functions virtualization (NFV) to virtualize entire classes of network node functions.

## TECHNICAL SKILLS

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Languages: Python, Java, Scala, C/C++, C#, Javascript.  
Storage: MySQL, PostgreSQL, MongoDB, Redis, ElasticSearch.  
Big Data: Hadoop, Spark  
Machine learning: Tensorflow, Pytorch, Sklearn

## PUBLICATIONS

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**Bilateral Dependency Neural Networks for Cross-Language Algorithm Classification** by **Nghi D. Q. Bui, Yijun Yu, Lingxiao Jiang**, in the 26th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER), Research Track, Zhejiang University in Hangzhou, February 24-27, 2019

**Hierarchical Learning of Cross-Language Mappings through Distributed Vector Representations for Code** by **Nghi D. Q. Bui, Lingxiao JIANG**, in Proceedings of the IEEE/ACM 40th International Conference on Software Engineering: New Ideas and Emerging Technologies Results Track (ICSE), Gothenburg, Sweden, 2018 - (*ACM SIGSOFT Distinguished paper award*)

**[Cross-Language Learning for Program Classification Using Bilateral Tree-Based Convolutional Neural Networks]**, by **Nghi D. Q. Bui, Lingxiao JIANG, and Yijun YU**. In the proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI) Workshop on NLP for Software Engineering, New Orleans, Louisiana, USA, 2018.

## AWARDS

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- 2018: ACM Sigsoft Distinguished Paper Award
- 2016: Full Ph.D. Scholarship from Ministry of Education Singapore
- 2015: Korean National Research Scholarship

## REFERENCES

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Website: <https://bdqnghi.github.io>

Linkedin: <https://www.linkedin.com/in/quocnghi>

Github: <https://github.com/bdqnghi>