

# Bui Duy Quoc Nghi

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79c Toa Payoh Central

## 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>

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