

Bui Duy Quoc Nghi

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RESEARCH INTERESTS

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

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

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

Languages: Python, Java, Scala, C/C++, C#, Javascript.

Storage: MySQL, PostgreSQL, MongoDB, Redis, ElasticSearch.

Big Data: Hadoop, Spark

Machine learning: Tensorflow, Pytorch, Sklearn

PUBLICATIONS

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

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

REFERENCES

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

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

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