

Nghi D. Q. Bui

PH.D. CANDIDATE IN COMPUTER SCIENCE

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“Be the change that you want to see in the world.”

Education

Singapore Management University

PH.D. IN INFORMATION SYSTEMS

Singapore

2016 - 2021 (Expected)

Ho Chi Minh University of Natural Sciences

BACHELOR IN COMPUTER SCIENCE

Ho Chi Minh, Viet Nam

2009 - 2013

- Graduated from Advanced Program in Computer Science, which is an honor program

Skills

Machine Learning Tensorflow, Pytorch, Sklearn

Programming Python, Node.JS, C/C++, Scala, Java

Database MySQL, PostgreSQL, MongoDB, Redis, ElasticSearch

Experience

Noggin

LEAD DATA SCIENTIST

Singapore

March 2017 - Now

- Developing AI algorithm that can model user behavior. Processing, cleansing, and verifying the integrity of data used for analysis

701Search

SENIOR SOFTWARE ENGINEER

Ho Chi Minh City, Viet Nam

March 2015 - July 2016

- 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

SOFTWARE ENGINEER

Ho Chi Minh City, Viet Nam

January 2014 - March 2015

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

Publications

AutoFocus: Interpreting Attention-based Neural Networks by Code Perturbation, by Nghi D. Q. BUI, Yijun YU, Lingxiao JIANG, in Proceedings of the 34th IEEE/ACM International Conference on Automated Software Engineering (ASE 2019), Research Track, New Ideas Papers, San Diego, California, United States, 2019

SAR: Learning Cross-Language API Mappings with Little Knowledge, by Nghi D. Q. Bui, Yijun Yu, Lingxiao Jiang, accepted at the IEEE/ACM 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Research Track, Tallinn, Estonia, 2019 (To Appear)

Towards Zero Knowledge Learning for Cross-Language API Mappings, by Nghi D. Q. BUI, in Proceedings of the IEEE/ACM 41th International Conference on Software Engineering (ICSE): ACM Student Research Competition Track (SRC), Montreal, Canada, 2019 - (Bronze Medal)

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 (ICSE): New Ideas and Emerging Technologies Results Track (NIER), 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.

Honors & Awards

2019 **SMU Presidential Doctoral Fellowship**, Ph.D. Program
2019 **ACM SIGSOFT Travel Grant Award**, ESEC/FSE 2019
2019 **Bronze Medal**, ACM Student Research Competition, ICSE 2019
2019 **ACM SIGSOFT Travel Grant Award**, ICSE 2019
2018 **ACM SIGSOFT Distinguished Paper Award**, ICSE 2018
2016 **Ph.D. Scholarship from the Ministry of Education**, Ph.D Program

Singapore
Tallinn, Estonia
Montreal, Canada
Montreal, Canada
Gothenburg, Sweden
Singapore