

Son Dinh

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EDUCATION

Washington University in Saint Louis, Saint Louis, Missouri, USA

- Ph.D. in Computer Science Aug 2013 – Jan 2020
 - Advisors: Prof. Christopher Gill, Prof. Kunal Agrawal.
 - Dissertation: Toward Efficient Scheduling for Parallel Real-Time Tasks on Multiprocessors.

Hanoi University of Science and Technology (HUST), Hanoi, Vietnam

- B.E. in Electronics and Telecommunications Sep 2004 – May 2009
 - Advisor: Prof. Thanh Huu Nguyen.

CONTINUING EDUCATION

Machine Learning, Stanford University, Coursera

Jun 2019

- Supervised learning, unsupervised learning, neural network, and best practices for machine learning projects.

Algorithms II, Princeton University, Coursera

Jan 2019

- Graph algorithms, data structures and algorithms for string sorting and substring searching.

RESEARCH EXPERIENCE

Washington University in Saint Louis,

Department of Computer Science and Engineering

- Graduate Research Assistant Aug 2013 – Present
 - Topic: Analysis and Design of Real-Time Scheduling Algorithms and Resource Sharing Protocols for Parallel Tasks.
 - Supervisors: Prof. Christopher Gill and Prof. Kunal Agrawal.

Hanoi University of Science and Technology,

School of Electronics and Telecommunications

- Research Assistant Nov 2011 – Dec 2012
 - Project: Reducing Energy Consumption in Data Center Networks based on Traffic Engineering (ECODANE), a joint project between HUST and Wuerzburg University, Germany.
 - Supervisors: Prof. Thanh Huu Nguyen, Assoc. Prof. Huong Thu Truong.
- Undergraduate Research Assistant 2008 – 2009
 - Project: German – Vietnamese Next Generation Network Services Research and Development Testbed (GVNext), a joint project between HUST and Fraunhofer FOKUS Berlin, Germany.
 - Supervisor: Prof. Thanh Huu Nguyen.

PUBLICATIONS

JOURNALS

- [1] **S. Dinh**, J. Li, K. Agrawal, C. Gill, and C. Lu, “Blocking Analysis for Spin Locks in Real-Time Parallel Tasks”, *IEEE Transactions on Parallel and Distributed Systems*, vol. 29, no. 4, Apr 2018.

CONFERENCES

- [1] **S. Dinh**, C. Gill, and K. Agrawal, “Analysis of Global Fixed-Priority Scheduling for Generalized Sporadic DAG Tasks”, arXiv:1905.05119 [cs.DC], 2019.
- [2] J. Li, **S. Dinh**, K. Kieselbach, K. Agrawal, C. Gill, and C. Lu, “Randomized Work Stealing for Large Scale Soft Real-Time Systems”, in *Proceedings of 37th IEEE Real-Time Systems Symposium*, Porto, Portugal, Dec 2016.

TEACHING EXPERIENCE

CSE 522S: Advanced Operating Systems,

Washington University in Saint Louis

- Teaching Assistant Spring 2018
 - Role: Contributed to the course material, including labs and studios. Held office hours and helped students with the course content.
 - Instructor: Prof. Christopher Gill.

AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"> ▪ Vietnam Education Foundation Fellowship Alternate Alternate for receiving financial support for graduate study in the U.S. 2013 ▪ Vietnam's Ministry of Education and Training Scholarship For attaining very good academic performance. 2004 – 2009 ▪ Third Place in Hanoi's Chemistry Olympiad Organized by Hanoi province for high school students excellent in chemistry. 2002
PROFESSIONAL SERVICES	Reviewer: ACM Transactions on Parallel Computing (TOPC), IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)
INDUSTRY EXPERIENCE	Object Computing Inc. , Saint Louis, Missouri <ul style="list-style-type: none"> ▪ Software Engineer Feb 2020 – Present
	Wala Jsc. , Hanoi, Vietnam <ul style="list-style-type: none"> ▪ Software Engineer Aug 2012 – Apr 2013 <ul style="list-style-type: none"> • Project: Developed and maintained backend system for a mobile social media application, which allows users to call, send instant messages, connect and share photos.
	VNG Corp. , Hanoi, Vietnam <ul style="list-style-type: none"> ▪ R&D Engineer Aug 2011 – Mar 2012 <ul style="list-style-type: none"> • Project: Improved performance of a distributed key-value storage for a Vietnamese online social network, named Zing Me.
	Xener Systems Inc. , Hanoi, Vietnam <ul style="list-style-type: none"> ▪ R&D Engineer Jul 2009 – Feb 2011 <ul style="list-style-type: none"> • Project: Developed application servers for IP Multimedia Subsystem, a core subsystem of the Third Generation (3G) cellular network. Worked with various multimedia Internet protocols, including Session Initiation Protocol and Session Description Protocol.
LANGUAGES	<ul style="list-style-type: none"> ▪ English: Professional working proficiency. ▪ Vietnamese: Native language.
SKILLS	<ul style="list-style-type: none"> ▪ Programming Languages: C/C++, Java, Python, MATLAB. ▪ Platforms & Tools: GNU/Linux, macOS, OpenMP, Intel CilkPlus, Shell, \LaTeX. ▪ Computer Networking: TCP/IP, Session Initiation Protocol (SIP), Software-Defined Networking (SDN).
CERTIFICATE	<ul style="list-style-type: none"> ▪ Cisco Certified Network Associate, version 3.1 2009
REFERENCES	<ul style="list-style-type: none"> ▪ Prof. Christopher Gill Professor of Computer Science and Engineering Washington University in Saint Louis 1 Brookings Drive, St. Louis, Missouri 63130, USA E-mail: cdgill@wustl.edu
	<ul style="list-style-type: none"> ▪ Assoc. Prof. Kunal Agrawal Associate Professor of Computer Science and Engineering Washington University in Saint Louis 1 Brookings Drive, St. Louis, Missouri 63130, USA E-mail: kunal@wustl.edu

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