

# Son Dinh

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## EDUCATION

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

- Ph.D. Candidate in Computer Science Aug 2013 – Dec 2019 (Expected)
  - Advisors: Prof. Christopher Gill, Prof. Kunal Agrawal.
  - Research interests: real-time systems, algorithms, parallel computing.

### 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 37<sup>th</sup> 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.

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

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