

# Son Dinh

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## EDUCATION

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

- Ph.D. Candidate in Computer Science

Aug 2013 – Present

- Advisers: Prof. Christopher Gill, Prof. Kunal Agrawal
- Focus: Real-time systems, scheduling algorithms, parallel programming.
- Overall GPA: 3.83 / 4

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

- B.E. in Electronics and Telecommunications

Sep 2004 – May 2009

- Overall GPA: 7.86 / 10

## RESEARCH EXPERIENCE

### Washington University in Saint Louis,

#### Department of Computer Science and Engineering

- Graduate Research Assistant

Aug 2013 – Present

- Project: Analysis and Design of Real-Time Scheduling Algorithms and Synchronization 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 Datacenter 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, 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 A. Yone, “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 for Sporadic DAG Tasks,” under review for *26<sup>th</sup> International Conference on Real-Time Networks and Systems*, 2018.
- [2] J. Li, **S. Dinh**, K. Kieselbach, K. Agrawal, C. Gill, and C. Lu, “Randomized Work Stealing for Large Scale Soft Real-Time System,” 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, helped students with studios and labs.
- Instructor: Prof. Christopher Gill.

## AWARDS & SCHOLARSHIPS

- Vietnam Education Foundation Fellowship Alternate

2013

Alternate for receiving financial support for graduate study in the US.

- Vietnam’s Ministry of Education and Training Scholarship

2004 – 2009

For attaining very good academic performance.

- Third Place in Hanoi’s Chemistry Olympiad

2002

Organized by Hanoi City for high school students excellent in chemistry.

<b>WORK EXPERIENCE</b>	<b>Wala, Jsc, Hanoi, Vietnam</b> <ul style="list-style-type: none"> <li>Software Engineer <ul style="list-style-type: none"> <li>Project: Develop and maintain back-end systems for a social media application.</li> </ul> </li> </ul>	Aug 2012 – Apr 2013
	<b>VNG Corporation, Hanoi, Vietnam</b> <ul style="list-style-type: none"> <li>R&amp;D Engineer <ul style="list-style-type: none"> <li>Project: Improve performance of a distributed storage system for Zing Me online social network.</li> </ul> </li> </ul>	Aug 2011 – Mar 2012
	<b>Xener Systems, Inc, Hanoi, Vietnam</b> <ul style="list-style-type: none"> <li>R&amp;D Engineer <ul style="list-style-type: none"> <li>Project: Develop a presence service for IP Multimedia Subsystem (IMS), a core subsystem of the Third Generation (3G) cellular network, based on Session Initiation Protocol (SIP).</li> </ul> </li> </ul>	Jul 2009 – Feb 2011
<b>LANGUAGES</b>	<ul style="list-style-type: none"> <li>Vietnamese: Native language.</li> <li>English: Professional working proficiency.</li> </ul>	
<b>SKILLS</b>	<ul style="list-style-type: none"> <li>Programming languages: C, C++, Java, Python.</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</li> </ul>	2009
<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 Avenue, 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 Avenue, St. Louis, Missouri 63130, USA E-mail: kunal@wustl.edu</li> </ul>	

[CV compiled on 2018-07-13]