

# 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.

**WORK  
EXPERIENCE**

**Wala, Jsc, Hanoi, Vietnam**

- Software Engineer
  - Project: Develop and maintain back-end systems for a social media application.

Aug 2012 – Apr 2013

**VNG Corporation, Hanoi, Vietnam**

- R&D Engineer
  - Project: Improve performance of a distributed storage system for Zing Me online social network.

Aug 2011 – Mar 2012

**Xener Systems, Inc, Hanoi, Vietnam**

- R&D Engineer
  - 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).

Jul 2009 – Feb 2011

**LANGUAGES**

- Vietnamese: Native language.
- English: Professional working proficiency.

**SKILLS**

- Programming languages: C, C++, Java, Python.
- Platforms & tools: GNU/Linux, macOS, Shell,  $\text{\LaTeX}$ .
- Computer networking: TCP/IP, Session Initiation Protocol (SIP), Software-Defined Networking (SDN).

**CERTIFICATE**

- Cisco Certified Network Associate, version 3.1

2009

**REFERENCES**

- **Prof. Christopher Gill**  
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1 Brookings Drive, St. Louis, Missouri 63130, USA  
E-mail: cdgill@wustl.edu
- **Assoc. Prof. Kunal Agrawal**  
Associate Professor of Computer Science and Engineering  
Washington University in Saint Louis  
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[CV compiled on 2018-07-13]