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.

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^{th} *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

- Vietnam Education Foundation Fellowship Alternate — 2013
  Alternate for receiving financial support for graduate study in the U.S.
- 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 province for high school students excellent in chemistry.

PROFESSIONAL SERVICES

Reviewer: ACM Transactions on Parallel Computing, IEEE Transactions on Parallel and Distributed Systems

INDUSTRY EXPERIENCE

Wala, Jsc, Hanoi, Vietnam

- Software Engineer — Aug 2012 – Apr 2013
  - 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 Corporation, Hanoi, Vietnam

- R&D Engineer — Aug 2011 – Mar 2012
  - Project: Improved performance of a distributed key-value storage for a Vietnamese online social network, named Zing Me.

Xener Systems, Inc, Hanoi, Vietnam

- R&D Engineer — Jul 2009 – Feb 2011
  - 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

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

SKILLS

- Programming Languages: C/C++, Java, Python, MATLAB.
- Platforms & Tools: GNU/Linux, macOS, Shell, 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**
  Professor of Computer Science and Engineering
  Washington University in Saint Louis
  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
  1 Brookings Drive, St. Louis, Missouri 63130, USA
  E-mail: kunal@wustl.edu

[*CV compiled on 2019-06-05*]