Son Dinh

507 Jolley Hall, Washington University in St. Louis, Saint Louis, MO 63130

✉ sonndinh@wustl.edu • ☎ +1 (314) 585-9358 • ⌂ https://sonndinh.github.io • 🔗 sonndinh • ⌾ sonndinh

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**	▪ 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

▪ Software Engineer   Feb 2020 – Present

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 Corp., 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, OpenMP, Intel CilkPlus, 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 2020-02-13*]