

Vaspol Ruamviboonsuk

Computer Science and Engineering
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|---------------------|---|-------------------|
| INTERESTS | My primary research interest is in web performance. Currently, I focus on making the web faster while preserving the web security model. I am also interested in other aspects of web performance such as metrics for measuring web performance. In addition, my research interests also include distributed systems, which I have also done some research on wide-area Internet measurements, and distributed storage systems. | |
| EDUCATION | Ph.D. student in Computer Science and Engineering University of Michigan , Ann Arbor, MI Advisor: Prof. Harsha V. Madhyastha | Expected 2019 |
| | M.S. in Computer Science. University of Michigan , Ann Arbor, MI Advisor: Prof. Harsha V. Madhyastha | 2016 |
| | B.S. with Honors in Computer Science University of Washington , Seattle, WA Advisor: Prof. Richard Ladner Thesis: DigiTaps: Eyes-free Number Entry Method with Minimal Voice Feedback | 2014 |
| PUBLICATIONS | Vroom: Accelerating the Mobile Web with Server-Aided Dependency Resolution Vaspol Ruamviboonsuk, Ravi Netravali, Muhammed Uluyol, and Harsha V. Madhyastha 2017 ACM SIGCOMM, Los Angeles, CA, August 2017 | |
| | Demonstration of the Myria big data management service Daniel Halperin, Victor Teixeira de Almeida, Lee Lee Choo, Shumo Chu, Paraschos Koutris, Dominik Moritz, Jennifer Ortiz, Vaspol Ruamviboonsuk, Jingjing Wang, Andrew Whitaker, Shengliang Xu, Magdalena Balazinska, Bill Howe, and Dan Suciu 2014 ACM SIGMOD international conference on Management of data, Snowbird, UT, November 2014 | |
| | Tapulator: A non-visual calculator using natural prefix-free codes Vaspol Ruamviboonsuk, Shiri Azenkot, and Richard E Ladner Poster session, the 14th international ACM SIGACCESS conference on Computers and accessibility (ASSETS 2012), Boulder, CO, October 2012 | |
| RESEARCH EXPERIENCE | Improving mobile web performance via aids from web servers Advisor: Prof. Harsha V. Madhyastha | 10/2015 - Present |
| | <ul style="list-style-type: none">Understood the fundamental reasons why web pages are slow and use this knowledge to design a system that leverages recent advances of web optimization techniques such as HTTP/2 PUSH and Link preload headers to reduce web page load time. | |
| | Improving front-end latency to cloud services Advisor: Prof. Harsha V. Madhyastha | 05/2015 - 10/2015 |
| | <ul style="list-style-type: none">Analyzed internet measurement data to see patterns of front-end latency degradation and understood how to implement front-end server redirection for the client. | |
| | Numerical input gestures for visually-impaired people Advisor: Prof. Richard Ladner | 2011 - 2014 |

- Designed special gestures for inputting numbers on smartphones by leveraging multi-touch input surface. [ASSETS'12]

Myria, Big Data as a Service

Advisor: Prof. Magdalena Balazinska

2012 - 2014

- Implemented a database operator in the system. [SIGMOD'14]

TEACHING EXPERIENCE

Graduate Student Instructor

1/2017 - 4/2017

Department of Computer Science and Engineering, University of Michigan, Ann Arbor, MI

- EECS 498: Introduction to Distributed Systems (Winter 2017)

Teaching Assistant

9/2012 - 3/2014

Department of Computer Science and Engineering, University of Washington, Seattle, WA

- CSE 344: Introduction to Data Management (Fall 2012, Winter 2013, Winter 2014)

WORK EXPERIENCE

Software Engineer Intern

9/2017 - 12/2017

Google Inc. Mountain View, CA

Team: Ads Quality.

Software Engineer Intern

5/2017 - 8/2017

Google Inc. Seattle, WA

Team: Flywheel. Improve web performance.

Graduate Student Research Assistant

5/2015 - Present

Advisor: Prof. Harsha V. Madhyastha.

Electrical Engineering and Computer Science Department, University of Michigan, Ann Arbor, MI

Software Developer Engineer in Test Intern

6/2013 - 9/2013

Microsoft. Redmond, WA

Project: Extended Windows Intune test framework to support fuzz testing, developed test modules using the extended features, and incorporated the module as part of the weekly test suite.

Software Engineer Intern

6/2012 - 8/2012

Cobalt. Seattle, WA

Project: Designed and developed an internal monitoring tool that periodically aggregates application server logs for checking system health.

AWARDS

- 2013 Mary Gates Research Scholarship. University of Washington, Seattle, WA

SKILLS

Most of my work is done in C/C++, Java, and Python, but I am most familiar with Java and Python. I also have some experience working with networking tools such as iptables, and tcpdump. I am also familiar with interacting with android smartphones via ADB.