

Arjun Kashyap

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| CONTACT INFORMATION | E-mail: kashyap.49@buckeyemail.osu.edu | Website: https://arjun21k.github.io/ |
| RESEARCH INTERESTS | My research interests broadly include Virtualization, Cloud Computing, and Storage. | |
| EDUCATION | Ohio State University , Columbus, OH, USA <i>Doctorate of Philosophy, Computer Science</i> | Aug 2019 - Present |
| | University of Wisconsin-Madison , Madison, WI, USA <i>Master of Science, Computer Science</i> | Sep 2017 - May 2019 |
| | National Institute of Technology (NIT) Trichy , Trichy, India <i>Bachelor of Technology (Honors), Instrumentation & Control Engineering</i> | July 2010 - May 2014 |
| RESEARCH EXPERIENCE | Graduate Researcher Ohio State University (<i>Adviser: Xiaoyi Lu</i>) <ul style="list-style-type: none">• <i>Disaggregated storage: Studied and characterized NVMe over Fabrics (NVMe-oF) over different network protocols using Intel SPDK.</i>• <i>Persistent memory: Analyzed Intel Optane DC Persistent Memory Module (DCPMM) to generalize persistent memory characteristics through micro-benchmarks and performed case studies to guide the design of storage systems.</i> | |
| PROFESSIONAL EXPERIENCE | Microsoft Corporation , Redmond, WA, USA <i>Software Engineer Intern - Azure Dedicated (Remote)</i> | May 2020 - Jul 2020 |
| | Microsoft Research Lab , Cambridge, UK <i>Research Intern</i> | June 2019 - Aug 2019 |
| | Microsoft Corporation , Redmond, WA, USA <i>Software Engineer Intern - Business Applications Group</i> | May 2018 - Aug 2018 |
| | Oracle India Pvt Ltd , Hyderabad, India <i>Senior Software Developer (Full stack development)</i> | June 2014 - Jul 2017 |
| PAPERS AND CONFERENCES | <ol style="list-style-type: none">1. Shashank Gugnani, Arjun Kashyap, and Xiaoyi Lu “Understanding the Idiosyncrasies of Real Persistent Memory”, VLDB 20212. Arjun Kashyap, Shashank Gugnani, and Xiaoyi Lu “Impact of Commodity Networks on Storage Disaggregation with NVMe-oF”, Bench 2020 | |
| ACHIEVEMENTS AND ACTIVITIES | Awarded student travel grant for SC’20. Secondary reviewer for CCGrid’21, Euro-Par’20, IEEE TPDS’20, BPOD’20, HPCS’20, and HiPC’20. Application development award from US Ignite for SAFER Home project. Granted <i>academic proficiency</i> prizes at NIT Trichy in 2012 and 2013. | |

PROJECTS

Azure VMware datacenter monitoring

Microsoft Corp. (Mentor: [Amit Chattopadhyay](#))

May 2020 - Jul 2020

Built an end-to-end pipeline to collect, analyze, and monitor VMware vCenter cluster metrics and host system logs for the software-defined data center running on Azure bare-metal nodes.

Augmenting the Visual Studio GateInsight tool

Microsoft Research - Cambridge (Mentor: [Katja Kevic](#) & [Brendan Murphy](#)) Jun 2019 - Aug 2019

Worked on the GateInsight tool in Microsoft Visual Studio which provides insight to developers about the feature toggles in the Office source code. The tool uses information collected from an analysis framework that finds all the feature toggles.

Study of Request-Routing in Content Delivery Networks

UW-Madison (Course: Adv. Computer Networks, with [Prof. Paul Barford](#)) Sep 2018 - Dec 2018

Performed a study of request-routing algorithms and mechanisms in CDNs, subject to varied network conditions. Discovered whether the request routing algorithms of a CDN actually determines the best edge server with respect to client perceived latency. [\[Code\]](#) [\[Report\]](#)

Coordination server for SAFER Home

UW-Madison (Adviser: [Prof. Suman Banerjee](#))

Jan 2018 - May 2018

As a member of the [Safer Home](#) project, designed a server in [ParaDrop](#), an edge computing platform, which coordinates messaging and video streaming during normal and emergency situations. The project was selected for application development award in US Ignite. [\[Link\]](#)

SOFTWARE SKILLS

Programming Languages - C, C#, C++, Java, Javascript, Python, SQL, TypeScript, MATLAB
Web Technologies - HTML, CSS, NodeJS, Bootstrap, React, JQuery, RequireJS, Knockout
Others - UNIX/Linux, git, NVMe, PMEM, QEMU

TEACHING EXPERIENCE

Department of Computer Science & Engineering, OSU

- *Grad Teaching Assistant*, CSE 1222: Intro to C++ Aug 2020 - Dec 2020
- *Grad Teaching Assistant*, CSE 2331: Data Structures & Algorithms Aug 2019 - May 2020

Department of Computer Science, UW-Madison

- *Service-learning*, CS 402: Introducing CS to K-12 students Jan 2019 - May 2019
- *Project Assistant*, CS 639: Introduction to Software Security Jan 2019 - May 2019
- *Project Assistant*, CS 537: Introduction to Operating Systems Sep 2018 - Dec 2018
- *Project Assistant*, CS 640: Introduction to Computer Networks Jan 2018 - May 2018