

## Arjun Kashyap

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CONTACT INFORMATION	1474 Neil Ave Apt D, Columbus, OH 43201 <i>Website:</i> <a href="https://arjun21k.github.io/">https://arjun21k.github.io/</a>	<i>E-mail:</i> kashyap.49@osu.edu <i>Phone:</i> +1 (608) 960 2729
RESEARCH INTERESTS	My research interests broadly include Virtualization, Cloud Computing, and Storage.	
EDUCATION	<b>Ohio State University</b> , Columbus, OH, USA <i>Doctorate of Philosophy, Computer Science</i>	Aug 2019 - Present
	<b>University of Wisconsin-Madison</b> , Madison, WI, USA <i>Master of Science, Computer Science</i>	Sep 2017 - May 2019
	<b>National Institute of Technology (NIT) Trichy</b> , Trichy, India <i>Bachelor of Technology (Honors), Instrumentation &amp; Control Engineering</i>	July 2010 - May 2014
PROFESSIONAL EXPERIENCE	<b>Microsoft Corporation</b> , Redmond, WA, USA <i>Software Engineer Intern - Azure Dedicated (Remote)</i>	May 2020 - Jul 2020
	<b>Microsoft Research Lab</b> , Cambridge, UK <i>Research Intern</i>	June 2019 - Aug 2019
	<b>Microsoft Corporation</b> , Redmond, WA, USA <i>Software Engineer Intern - Business Applications Group</i>	May 2018 - Aug 2018
	<b>Oracle India Pvt Ltd</b> , Hyderabad, India <i>Senior Software Developer (Full stack development)</i>	June 2014 - Jul 2017
TEACHING EXPERIENCE	<b>Department of Computer Science &amp; Engineering, OSU</b> <ul style="list-style-type: none"><li><i>Grad Teaching Assistant</i>, CSE 2331: Data Structures &amp; Algorithms</li></ul>	Aug 2019 - Dec 2019
	<b>Department of Computer Science, UW-Madison</b> <ul style="list-style-type: none"><li><i>Service-learning</i>, CS 402: Introducing CS to K-12 students</li><li><i>Project Assistant</i>, CS 639: Introduction to Software Security</li><li><i>Project Assistant</i>, CS 537: Introduction to Operating Systems</li><li><i>Project Assistant</i>, CS 640: Introduction to Computer Networks</li></ul>	Jan 2019 - May 2019 Jan 2019 - May 2019 Sep 2018 - Dec 2018 Jan 2018 - May 2018
PROJECTS	<b>Azure VMware datacenter monitoring</b> <i>Microsoft Corp.</i> (Mentor: <a href="#">Amit Chattopadhyay</a> ) 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.	May 2020 - Jul 2020

### **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.

### **Trusted platform for edge compute nodes**

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

Sep 2018 - April 2019

Explored a mechanism via Trusted Platform Module for a cloud server and a client to verify whether the edge compute platform has been tampered with.

### **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. [\[Code\]](#) [\[Report\]](#)

### **Evaluating Differential Privacy Mechanisms for Network Trace Analysis**

*UW-Madison* (Course: Topics in Security & Privacy, with [Prof. Justin Hsu](#)) Sep 2018 - Dec 2018

Evaluated numerous differentially-private mechanisms on the static network dataset at packet and flow-level granularities. Applied the continual counter to a stream of (live) network data to output *top-k items* without compromising privacy of the user. [\[Code\]](#)

### **Embedding a canvas component in a model-driven form designer**

*Microsoft Corp.* (Mentor: [Syed Adnan Ahmed](#))

May 2018 - Aug 2018

Designed a framework to create [canvas](#)-based components in [PowerApps](#) to allow an application author/developer to use them out-of-the-box instead of creating a component from scratch.

### **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. [\[Link\]](#)

### **Entity Matching using Machine Learning**

*UW-Madison* (Course: Data Science, with [Prof. AnHai Doan](#))

Feb 2018 - April 2018

Performed entity matching of books from raw data of Amazon and GoodReads using [Magellan](#). [\[Code\]](#)

SOFTWARE SKILLS    Programming Languages - C, C#, C++, Java, Javascript, Python, SQL, TypeScript, MATLAB  
Servers & Web containers - Weblogic, Tomcat  
Web Technologies - HTML, CSS, NodeJS, Bootstrap, React, JQuery, RequireJS, Knockout  
Databases - Oracle, MySQL

COURSEWORK	<b>UW-Madison</b>	<b>OSU</b>
	CS 537 Introduction of Operating Systems CS 640 Introduction to computer Networks CS 707 Mobile & Wireless Networking CS 740 Advanced Computer Networks CS 760 Machine Learning CS 839 Data Science CS 839 Topics in Security & Privacy	CSE 6431 Advanced Operating Systems CSE 6341 Foundations of Programming Languages CSE 5194.01 Intro to High-Performance Deep Learning <b>Other</b> Database Design Information Security Data Structures & Algorithms
HONOURS AND ACHIEVEMENTS	<a href="#">Application development award</a> from <a href="#">US Ignite</a> for SAFER Home project.	
	Conferral of the <i>First Class with Distinction</i> for Bachelors of Technology degree in NIT Trichy, 2014 (Requires a CGPA above 8.5 out of 10).	
	Granted <i>academic proficiency</i> prizes at NIT Trichy in 2012 and 2013 for being among the top 3 students in the department.	
	Achieved a rank 2/96 in Instrumentation & Control Engineering department in NIT Trichy.	
EXTRACURRICULAR ACTIVITIES	Runner up in Table-Tennis in Annual Sports & Games 2011-2012 at NIT Trichy.	
	Manager of <a href="#">Pragyan</a> Workshops team from 2012-2013 which organizes and conducts technical workshops for college students.	