

Arjun Kashyap

CONTACT INFORMATION	1474 Neil Ave Apt D, Columbus, OH 43201 Website: https://arjun21k.github.io/	E-mail: kashyap.49@osu.edu Phone: +1 (608) 960 2729
RESEARCH INTERESTS	My research interests include High Performance Interconnects and Protocols, Parallel Computing (MPI/PGAS), Virtualization, and Cloud Computing.	
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> (CGPA: 3.94/4) Sep 2017 - May 2019	
	National Institute of Technology (NIT) Trichy , Trichy, India <i>Bachelor of Technology (Honors), Instrumentation & Control Engineering</i> (CGPA: 9.16/10, Rank: 2/96) July 2010 - May 2014	
RESEARCH EXPERIENCE	Graduate Researcher , UW-Madison, WI, USA Adviser: Prof. Suman Banerjee <ul style="list-style-type: none">• Trusted platform for edge compute nodes Exploring a mechanism for the cloud server and the client to trust the edge compute platform on which client applications would run.<ul style="list-style-type: none">– Creating a solution on ParaDrop, an edge computing platform, to ensure that the edge node's software/hardware has not been tampered with and running only the desired software packages.	Sep 2018 - April 2019
PROFESSIONAL EXPERIENCE	Microsoft Research Lab , Cambridge, UK <i>Research Intern</i> June 2019 - Aug 2019	
	Microsoft Corporation , Redmond, WA, USA <i>Summer 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	
TEACHING EXPERIENCE	Department of Computer Science & Engineering, OSU <ul style="list-style-type: none">• <i>Grad Teaching Assistant</i>, CSE 2331: Data Structures & Algorithms Aug 2019 - Dec 2019	
	Department of Computer Science, UW-Madison <ul style="list-style-type: none">• <i>Project Assistant</i>, CS 639: Introduction to Software Security Jan 2019 - May 2019• <i>Project Assistant</i>, CS 537: Introduction to Operating Systems Sep 2018 - Dec 2018• <i>Project Assistant</i>, CS 640: Introduction to Computer Networks Jan 2018 - May 2018	

PROJECTS

Augmenting the Visual Studio GateInsight tool

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

Productized and optimized 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. [\[Code\]](#) [\[Report\]](#)

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

UW-Madison

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

OSU

CSE 6431 Advanced Operating Systems
CSE 6341 Foundations of Programming Languages
CSE 5194.01 Intro to High-Performance Deep Learning
Other
Database Design
Information Security
Data Structures & Algorithms

HONOURS AND
ACHIEVEMENTS

[Application development award](#) from [US Ignite](#) for SAFER Home project.

Conferral of the *First Class with Distinction* for Bachelors of Technology degree in NIT Trichy, 2014 (Requires a CGPA above 8.5 out of 10).

Granted *academic proficiency* 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 [Pragyan](#) Workshops team from 2012-2013 which organizes and conducts technical workshops for college students.