Arjun Kashyap

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RESEARCH INTERESTS

My research interests include High-Performance Interconnects and Protocols, Parallel Computing, Virtualization, and Cloud Computing.

EDUCATION

Ohio State University, Columbus, OH, USA

Doctorate of Philosophy, Computer Science — Aug 2019 - Present

University of Wisconsin-Madison, Madison, WI, USA

Master of Science, Computer Science — Sep 2017 - May 2019
(CGPA: 3.94/4)

National Institute of Technology (NIT) Trichy, Trichy, India

*Bachelor of Technology (*Honors*), Instrumentation & Control Engineering* — July 2010 - May 2014
(CGPA: 9.16/10, Rank: 2/96)

RESEARCH EXPERIENCE

Graduate Researcher, UW-Madison, WI, USA

Adviser: [Prof. Suman Banerjee](#)

- **Trusted platform for edge compute nodes** — Sep 2018 - April 2019
  Exploring a mechanism for the cloud server and the client to trust the edge compute platform on which client applications would run.

  – 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.

PROFESSIONAL EXPERIENCE

Microsoft Research Lab, Cambridge, UK

Research Intern — June 2019 - Aug 2019

Microsoft Corporation, Redmond, WA, USA

Summer Intern (Business Applications Group) — May 2018 - Aug 2018

Oracle India Pvt Ltd, Hyderabad, India

Senior Software Developer (Full stack development) — June 2014 - Jul 2017

TEACHING EXPERIENCE

Department of Computer Science & Engineering, OSU

- *Grad Teaching Assistant*, CSE 2331: Data Structures & Algorithms — Aug 2019 - Dec 2019

Department of Computer Science, UW-Madison

- *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

PROJECTS

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]

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 mechnanisms 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 prject, 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	**OSU**
CS 537 Introduction of Operating Systems	CSE 6431 Advanced Operating Systems
CS 640 Introduction to computer Networks	CSE 6341 Foundations of Programming Lanugages
CS 707 Mobile & Wireless Networking	CSE 5194.01 Intro to High-Performance Deep Learning
CS 740 Advanced Computer Networks	**Other**
CS 760 Machine Learning	Database Design
CS 839 Data Science	Information Security
CS 839 Topics in Security & Privacy	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.