

Arjun Kashyap

CONTACT INFORMATION	2130 University Avenue, Apt 77, Madison, WI 53726 <i>Website:</i> https://arjun21k.github.io/	<i>E-mail:</i> akashyap3@wisc.edu <i>Phone:</i> +1 (608) 960 2729
RESEARCH INTERESTS	I am interested in working on computer networks, mobile and wireless networks, security and systems.	
EDUCATION	University of Wisconsin-Madison , Madison, WI, USA <i>Master of Science, Computer Science</i> CGPA: 3.91/4 2017 - 2019 National Institute of Technology (NIT) Trichy , Trichy, India <i>Bachelor of Technology, Instrumentation & Control Engineering</i> CGPA: 9.16/10 2010 - 2014	
RESEARCH EXPERIENCE	Graduate Researcher , UW-Madison, WI, USA <i>Adviser:</i> Prof. Suman Banerjee <ul style="list-style-type: none">• Trusted platform for edge compute nodes Sep 2018 - Present 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.	
PROFESSIONAL EXPERIENCE	University of Wisconsin-Madison , Madison, WI, USA <i>Project Assistant</i> Jan 2018 - May 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, UW-Madison <i>Project Assistant</i> , CS 537: Introduction to Operating Systems Fall 2018 <ul style="list-style-type: none">• Served as one of the two graders for a class of 265 students, with duties of grading quizzes and helping students with any queries related to them. Department of Computer Science, UW-Madison <i>Project Assistant</i> , CS 640: Introduction to Computer Networks Spring 2018 <ul style="list-style-type: none">• Served as one of the two graders for a class of 110 students, with duties of grading quizzes and holding office hours to help students on reviewing quizzes.	
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	Other Data Structures & Algorithm Database Design Information security

SOFTWARE SKILLS	<p>Programming Languages - C, C++, Java, Javascript, Python, Verilog, SQL, TypeScript MATLAB</p> <p>Servers & Web containers - Weblogic, Tomcat</p> <p>Web Technologies - HTML, CSS, NodeJS, Bootstrap, React, JQuery, RequireJS, Knockout</p> <p>Databases - Oracle, MySQL</p>
PROJECTS	<p>Study of Request-Routing in Content Delivery Networks <i>UW-Madison</i> (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 Akamai CDN actually determines the best edge server with respect to client perceived latency.</p> <p>Evaluating Differential Privacy Mechanisms for Network Trace Analysis <i>UW-Madison</i> (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 <i>top-k items</i> without compromising privacy of the user. Link</p> <p>Embedding a canvas component in a model-driven form designer <i>Microsoft</i> (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.</p> <p>Coordination server for SAFER Home <i>UW-Madison</i> (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</p> <p>Entity Matching using Machine Learning <i>UW-Madison</i> (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. Link</p>
HONOURS AND ACHIEVEMENTS	<p>Application development award from US Ignite for SAFER Home project.</p> <p>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).</p> <p>Granted <i>academic proficiency</i> prizes in NIT Trichy during 2012 and 2013 for being among the top 3 students in the department.</p> <p>Achieved a rank 2/96 in instrumentation & control engineering department in NIT Trichy.</p>
EXTRACURRICULAR ACTIVITIES	<p>Runner up in Table-Tennis in Annual Sports & Games 2011-2012 at NIT Trichy.</p> <p>Manager of Pragyan Workshops team from 2012-2013 which organizes and conducts technical workshops for college students.</p>