Arjun Kashyap

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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
Master of Science, Computer Science   CGPA: 3.91/4   2017 - 2019

National Institute of Technology (NIT) Trichy, Trichy, India
Bachelor of Technology, Instrumentation & Control Engineering   CGPA: 9.16/10   2010 - 2014

PROFESSIONAL EXPERIENCE

University of Wisconsin-Madison, Madison, WI, USA
Project Assistant   Jan 2018 - Dec 2018

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

COURSEWORK

UW-Madison	**Other**
CS 537 Introduction of Operating Systems	Data Structures & Algorithm
CS 640 Introduction to computer Networks	Database Design
CS 707 Mobile & Wireless Networking	Information security
CS 740 Advanced Computer Networks	
CS 760 Machine Learning	
CS 839 Data Science	
CS 839 Topics in Security & Privacy	

SOFTWARE SKILLS

Programming Languages - C, C++, Java, Javascript, Python, Verilog, SQL, TypeScript MATLAB

Servers & Web containers - Weblogic, Tomcat

Web Technologies - HTML, CSS, NodeJS, Bootstrap, React, JQuery, RequireJS, Knockout

Versioning & Issue Tracking Tools - Git, Perforce, Source Tree, Jira, BugDB

Databases - Oracle, MySQL

PROJECTS

Trusted platform for edge compute nodes
UW-Madison (Adviser: Prof. Suman Banerjee)   From Sep 2018

Exploring a mechanism for the cloud server and the client to trust the platform of the edge node which runs the client application and communicates with the cloud server.

Study of Request-Routing in Content Delivery Networks
UW-Madison (Course: Adv. Computer Networks, with Prof. Paul Barford)   Sep 2018 - Dec 2018

Performed a comparative study of selected request-routing algorithms and mechanisms in CDNs, subject to varied network conditions. Discovered whether the request routing algorithms of CDNs actually determines the best edge server with respect to client perceived latency.

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. GitHub link

Embedding a canvas component in a model-driven designer

Microsoft, Redmond (Summer Internship)   May 2018 - Aug 2018

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

SAFER (Smart-home Activation for Emergency Response) Home

UW-Madison (Adviser: Prof. Suman Banerjee)   Jan 2018 - May 2018

A smart home device orchestration and coordination service that uses home edge compute nodes to provide better coordinated emergency response services and home safety.

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 in NIT Trichy during 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.

TEACHING EXPERIENCE

Department of Computer Science, UW-Madison

Project Assistant, CS 537: Introduction to Operating Systems   Fall 2018

- Served as one of the two graders for a class of 265 students and helped students with any queries related to quizzes and exams.

Department of Computer Science, UW-Madison

Project Assistant, CS 640: Introduction to Computer Networks   Spring 2018

- Served as one of the two graders for a class of 110 students and helped students with any queries related to quizzes and exams.

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.