Cheng Li

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CONTACT	Computer Science Department Email: <u>cli04@email</u>		
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EDUCATION	Williamsburg, VA, 23185	Phone: (757)-634-5423	
EDUCATION	College of William and Mary (GPA 4.0/4.0) PhD candidate in Computer Science Department	Aug. 2013 - Present	
	Harbin Institute of Technology (GPA rank: 6/184) Master of Engineering in Computer Science	Aug. 2011 – Jul. 2013	
	Nankai University (GPA rank: 1/84) Bachelor of Engineering in Computer Science	Sept. 2007 – Jul. 2011	
Expertise	 large recommendation system. Excellent in network programming. Have the experience of de as Web server, SMTP server and so on. Proficient with Software-defined networking. Familiar with O controller, Open vSwitch and Mininet SDN simulator. 	concepts. on System. Have the experience of designing and implementing ning. Have the experience of developing network applications, such nd so on. ed networking. Familiar with OpenFlow protocol, Floodlight SDN Mininet SDN simulator. attacks, especially DDoS attacks, man-in-the-middle attacks. Have	
Major	Recommendation System in Instagram	June 2018 – Aug. 2018	
RESEARCH & PROJECT	Implemented a recommendation system in Instagram Explore page. This proje training ranking models, tuning value models and adding new video-st	rk in Instagram. I was responsible for ct includes designing sourcing query,	
	Twitter Latent Space InferenceSept. 2016 – May 2017Use machine learning techniques to extract user latent space in social network. This project is written in bothMatlab and Python. I was responsible for algorithm implementation and experiments parts. This project hasbeen reported by the Associate Press. Please check here. This paper has been accepted by NIPS 2017.		
	Scheduling Algorithm in Distributed SDN ControllersJune. 2016 - PresentI built up a policy update model in distributed SDN controllers and proposed both optimal and heuristic algorithms for efficiently update policies in SDN while keeping per-packet consistency and fairness. I simulated the heuristic algorithm using Python. This is a work under submission.		
	OpenFlow Channel Security	Nov. 2015 – Nov. 2016	
	I implemented several man-in-the-middle attack demos (written in Python) in the OpenFlow channel, and a countermeasure of such attack by extending the OpenFlow protocol (Java on Floodlight controller, C on OVS side). This paper has been published at IEEE IoT Journal.		
PUBLICATION	Cheng Li, Varun Kanade, Felix Ming Fai Wong, Zhenming Liu. "From which world is your graph?" NIPS 2017		
	Cheng Li, Zhengrui Qin, Ed Novak, Qun Li. "Securing SDN Infrastructure of IoT-Fog Networks from MitM Attacks" <i>IEEE IoT Journal</i> .		
	 Cheng Li, Qun Li, Zijiang Hao. "High Efficiency Scheduling Scheme for Distributed SDN Controllers in IoT" (under submission) Name: Carter Ed Neural & Cheng Li, Zhangmi Qin, and Qun Li, "Cranking! Beauwards for Older 		
	 Nancy Carter, Ed Novak, Cheng Li, Zhengrui Qin, and Qun Li. "Graphical Passwords for Older Computer Users." <i>ACM UIST 2015</i>. Shanhe Yi, Cheng Li, and Qun Li. "A Survey of Fog Computing: Concepts, Applications, and Issues" 		
	Shanhe Yi, Cheng Li, and Qun Li. "A Survey of Fog Computing: Concepts, Applications, and Issues" ACM Workshop on Mobile Big Data, 2015.		
EXPERIENCE	> Software Engineer Intern at Instagram Explore Team, FBNY	0	
	TA of Finite Automata, Computer Organization and Computation Problem Solving, W&M	al Aug. 2013 – Present	
	 Research Assistant of Prof. Qun Li, W&M President of Chinese Student and Scholar Association, W&M 	Jun. 2015 – Present Aug. 2014 – Jul. 2015	
AWARDS	NIPS Travel Grant	Oct. 2017	
	 Graduate student research grant, W&M 	Sept. 2017	
	➢ Graduate student association conference travel grant, W&M	Sept. 2017	
	 Northrop Grumman Corporation Award on the natural and computational sciences, 16th Graduate Research Symposium, W& 	Mar. 2017	