Tyler Michael Kaczmarek

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EDUCATION:

Doctor of Philosophy, Computer Science: Expected June 2018
University of California, Irvine (UCI), Irvine, CA
Advisor: Gene Tsudik

Master of Science, Computer Science: December 2015
University of California, Irvine (UCI), Irvine, CA

Bachelor of Science, Computer Science: May 2013
The George Washington University (GWU), Washington, DC

HONORS/AFFILIATIONS

Dean's Fellowship (UCI Doctoral Fellowship) 2013 - present
Butterworth Fellowship 2013 - 2014
Recipient of National Science Foundation Research Academic Experience for Undergraduates, NSF Award No: 0937267 2011 - 2013

RESEARCH INTERESTS

Internet of Things; Software Defined Networking; Network Security; Usable and Accessible Security; Electronic Voting Protocols

RELATED EXPERIENCE

Research

Ph.D. Research, Department of Computer Science, UCI Irvine, CA, September 2013 – present

- Designed and tested prototype for measurement of biometric data based on users' seating posture and weight distribution for use as a deauthentication tool
- Conducted unattended experiment on usability of security-critical tasks on mobile devices under audio noise
- Designed and conducted unattended experiment on usability of security-critical tasks on mobile devices under visual noise
- Designed and conducted unattended experiment on usability of security-critical tasks on commodity PC under combined audio-visual noise

Research Intern, Hughes Research Lab, Malibu, CA, June 2014 – September 2014

- Designed and tested a Byzantine Fault-tolerant controller for the Software-Defined Networking Paradigm
- Assisted in implementation of Proactively Secure Cloud Storage of large data files

Undergraduate Research, Department of Computer Science, GWU, Washington, DC
Nov 2011-May 2013

- Designed and implemented coercion-resistant accessible electronic voting protocol, *Audiotegrity*
- Deployed *Audiotegrity* in live, binding 2011 municipal Election in Takoma Park, MD

- Presented *Audiotegrity* design and implementation as demo at the 2012 Symposium on Usable Privacy and Security (SOUPS)

PUBLICATIONS

ElDefrawy, Karim, and Tyler Kaczmarek. "Byzantine Fault Tolerant Software-Defined Networking (SDN) Controllers." *Computer Software and Applications Conference (COMPSAC), 2016 IEEE 40th Annual*. Vol. 2. IEEE, 2016.

Tyler Kaczmarek, Alfred Kobsa, Robert Sy, Gene Tsudik: "An Unattended Study of Users Performing Security Critical Tasks Under Adversarial Noise" USEC 2015: 23014

Tyler Kaczmarek, John Wittrock, Richard Carback, Alex Florescu, Jan Rubio, Noel Runyan, Poorvi L. Vora, Filip Zagórski: "Dispute Resolution in Accessible Voting Systems: The Design and Use of Audiotegrity.**"** VOTE-ID 2013: 127-141