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Homepage: <http://www.yuchenzhou.info/>

EDUCATION

Ph.D. (pursuing), in Computer Engineering

University of Virginia, Charlottesville, VA

GPA: 3.98

Aug 2009-May 2015(expected)

Relevant courses: Design and Analysis of Algorithms, Programming Language, Operating Systems, Theory of Computation, Computer Architecture, Computer Security, Probability and Stochastic Process, Game theory

B.Eng., Department of Electronic Engineering

Tsinghua University, Beijing, China, *Aug 2005-Jul 2009*

RESEARCH EXPERIENCE

*Graduate Research Assistant**Aug 2009-Present*

Security research group, Department of Computer Science

University of Virginia, Charlottesville, VA

- Working with my advisor Prof. David Evans, I have done various research projects on improving the [security, privacy and integrity](#) of third-party service integrations. These projects have resulted in multiple publications and posters which I [presented](#) at [various](#) major security conferences and industry research centers.

*Research Intern**May 2012-Aug 2012*

Internet Services Research Center (ISRC)

Microsoft Research, Redmond, WA

- Under the supervision of Dr. Shuo Chen, I did a security field study of Single Sign-On service and built a system that automatically checks for hidden assumptions in the developer guide. Our work was published at USENIX Security Symposium and I [presented](#) the work in August of 2013.

*Undergraduate Research Assistant**Sep 2008-May 2009*

Center for Intelligent Image and Document Information Processing

Tsinghua University, Beijing, China

- Under the guidance of Prof. Shengjin Wang, I studied various feature extraction/classification techniques and applied them to eye detection algorithm to assist drowsy drivers.

*Research Intern**Jul 2008-Aug 2008*

Center of Information Security and Cryptography, Department of Computer Science

Hong Kong University, China

- I led a three-people team and completed the motion detection module on a multi-core DSP board in parallel fashion. Our work was published at a major security magazine in China.

*Student Research Trainee**Mar 2008-July 2008*

Lab of New Generation Network Technology and Application

Tsinghua University, Beijing, China

- I participated in the optional student research training (SRT) program in my third year undergraduate and developed a search engine that focuses on removing duplicate query result. My work was published in the Journal of Information and Computational Science.

PUBLICATIONS

[Understanding and Monitoring Embedded Web Scripts](#), **Yuchen Zhou** and David Evans, to appear at the 35th IEEE Symposium on Security and Privacy (Oakland), May 2015.

[SSOScan: Automated Testing of Web Applications for Single Sign-On Vulnerabilities](#), **Yuchen Zhou** and David Evans, in proceedings of the 23rd USENIX Security Symposium, Aug, 2014.

Project homepage: <http://www.ssoscan.org/>

[*Explicating SDKs: Uncovering Assumptions Underlying Secure Authentication and Authorization*](#), **Rui Wang, Yuchen Zhou (co-first authors)**, Shuo Chen, Shaz Qadeer, David Evans and Yuri Gurevich, in proceedings of the 22nd USENIX Security Symposium, Aug, 2013.

Project homepage: <http://www.cs.virginia.edu/yuchen/explicatingSDKs/>

[*Protecting Private Web Content from Embedded Scripts*](#), **Yuchen Zhou** and David Evans, in proceedings of the 16th European Symposium on Research in Computer Security (ESORICS), Sep, 2011.

Project homepage: <http://www.cs.virginia.edu/DOMinator>

[*Why Aren't HTTP-only Cookies more widely deployed*](#), **Yuchen Zhou** and David Evans, appeared in the 4th workshop on Web 2.0 Security and Privacy, IEEE Security and Privacy Symposium, Mar, 2010.

[*Improved Fuzzy Set Information Retrieval Approach on duplicate webpage detection*](#), **Yuchen Zhou**, Zuoda Liu, Beixing Deng, Xing Li, in proceedings of Journal of Information and Computational Science, May, 2009.

Implementation of motion detection algorithm on multi data lane DSP processor, **Yuchen Zhou**, Meilin Wang, Zheng Zhang, 2008.11, ISSN1673-7873, appeared in the China Security & Protection magazine, Sep, 2008.

POSTERS

[*RedactDOM: Preventing Sensitive Data Leaking through Embedded Scripts*](#), Longze Chen, **Yuchen Zhou** and David Evans, presented at the poster session of the 34th IEEE Symposium on Security and Privacy, May, 2013.

[*Unifying Data Policies across the Client and Server*](#), Jonathan Burket, Jenny Cha, Austin DeVinney, Casey Mihalow, **Yuchen Zhou**, David Evans, presented at the poster session of the 20th USENIX Security Symposium, Aug, 2011.

GRANTS AND PROPOSALS

Securing Single Sign-On Applications, Google Research Grant. PI: Prof. David Evans, Total amount: \$59,000, Aug 2013.

- **(Primary Author)** I proposed to extend the explication approach for third-party service SDKs to apply to additional platforms and services, and build automated vulnerability scanners for integrated applications.

Automated Security Testing for Applications Integrating Third-Party Services, NSF Grant. PI: Prof. David Evans, Total amount: \$500,000, Aug 2014.

- **(Primary Author)** I presented the automated vulnerability scanning results for single sign-on integrations, and proposed to further improve the scanning success rate and speed by server- and client-side optimizations.

AWARDS

Louis T. Rader Research Award, School of Engineering and Applied Science, University of Virginia.	May, 2014
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Student Travel Grant, USENIX Security Symposium.	Aug, 2013
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REFERENCES

David Evans (Ph.D. advisor), Full Professor, Department of Computer Science, School of Engineering and Applied Science, University of Virginia, Phone: (434) 409-5443, Email: evans@cs.virginia.edu

Shuo Chen (Microsoft research mentor, Ph.D. dissertation committee member), Ph.D., Researcher, Internet Service Research Center, Microsoft Research Redmond, Phone: (425) 722-8238, Email: shuochen@microsoft.com

Westley Weimer (Ph.D. dissertation committee member), Associate Professor, Department of Computer Science, School of Engineering and Applied Science, University of Virginia, Phone: (434) 924-1021, Email: weimer@virginia.edu