### ERIK TRICKEL

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### **E**DUCATION

Arizona State University PhD in Computer Science	Tempe, Arizona May 2023
Southern Methodist University Dedman School of Law Juris Doctor	Dallas, Texas May 2009
Graduated magna cum laude (top 5%) and licensed in Texas in Novemb	er 2009 (currently inactive)
TARLETON STATE UNIVERSITY	Stephenville, Texas
Bachelor of Science in Computer Information Systems	December 1995
Experience	
Arizona State University	Tempe, Arizona
Assistant Teaching Professor	August 2023 – Present
<ul> <li>contributing to an improvement in student grades and overall cor</li> <li>Integrate innovative technology into teaching methods to scale colloarning outcomes</li> </ul>	
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- Created all homework assignments, projects, and exams
- Taught several classes each semester

## ERIK TRICKEL

<ul> <li>Managed student relationships on behalf of professor respective of the students</li> <li>Tutored and mentored students</li> <li>Instructor (ASU101)</li> </ul>	August 2015 – May 2016
<ul> <li>Prepared motivational lectures, assignments, and taught cl</li> <li>Coached and mentored students</li> </ul>	
Order of the Overflow Challenge Writer	Tempe, Arizona August 2017 - August 2021
• Worked on the Order of the Overflow team comprised of an the DEFCON CTF qualifiers and finals	n amazing team of security experts to host
<ul><li>Developed unique capture-the-flag challenges using a wide</li><li>Deployed and supported the competition's Kubernetes base</li></ul>	
UNIVERSITY OF TEXAS AT DALLAS Teaching Assistant for Dr. Straach	Richardson, Texas January 2014 – May 2014
• Graded student papers and answered student questions Lab Assistant for Professor Vogel	September 2013 – December 2013
• Taught the weekly C++ programming lab	
NuanceSys Software Developer	November 2010 - August 2019
<ul> <li>Conceived, designed, developed, and published a complication for Android devices using Java and SQLite</li> <li>Organized, prioritized, and implemented the various featur</li> <li>Created training and educational videos for users</li> </ul>	-
SMU Dedman School of Law Teaching Assistant for Professor JoAnn Hubbard	Dallas, Texas Fall 2006 – Spring 2008
<ul><li>Managed student relationships on behalf of professor by re</li><li>Graded assignments</li></ul>	esponding to student concerns
L-3 Communications (formerly known as Raytheon) Principal Engineer	Dallas, Texas June 2001 – August 2005
<ul> <li>Resolved mission critical business problems by providing b</li> <li>Led small and large scale application development projects</li> <li>Mentored and coached programmers</li> <li>Created presentations for upper management on complex to a scale of the second se</li></ul>	s that relied on Java and Oracle
I-BEAM BROADCASTING	Frisco, Texas

 I-BEAM BROADCASTING
 Frisco, Texas

 Advisory Engineer
 December 99 – June 01

• Advised senior leadership on technical direction and decisions

 $\bullet~$  Led small and large scale application development projects that relied on Java and DB2

# ERIK TRICKEL

#### Other Employers

Business Systems Analyst

- Designed and developed business systems in both mainframe, server, and web environments
- Led small- and large-scale application development projects

### **PUBLICATIONS**

- Toss a fault to your witcher: Applying Grey-box Coverage-guided Mutational Fuzzing to Detect SQL and Command Injection Vulnerabilities Security and Privacy Symposium 2023 Trickel, E., Pagani, F., Zhu, C., Dresel, L., Vigna, G., Kruegel, C., Wang, R., Bao, T., Shoshitaishvili, Y. and Doupé, A.
- Unleash the Simulacrum: Shifting Browser Realities for Robust {Extension-Fingerprinting} Prevention USENIX Security 2022 Karami, S., Kalantari, F., Zaeifi, M., Maso, X.J., Trickel, E., Ilia, P., Shoshitaishvili, Y., Doupé, A. and Polakis
- Everybody is Different: Client-side Diversification for Defending Against Extension Fingerprinting USENIX Security 2019 Erik Trickel, Oleksii Starov, Alexandros Kapravelos, Nick Nikiforakis, and Adam Doupé
- Shell We Play A Game? CTF-as-a-service for Security Education Proceedings of the USENIX Workshop on Advances in Security Education (ASE), August 2017 Erik Trickel, Francesco Disperati, Eric Gustafson, Faezeh Kalantari, Mike Mabey, Naveen Tiwari, Yeganeh Safaei, Adam Doupé, and Giovanni Vigna
- D*eep Android Malware Detection* ACM Conference on Data and Application Security and Privacy (CODASPY), March, 2017 Niall McLaughlin, Jesus Martinez del Rincon, BooJoong Kang, Suleiman Yerima, Paul Miller, Sakir Sezer, Yeganeh Safaei, Erik Trickel, Ziming Zhao, Adam Doupé, and Gail-Joon Ahn

### **OTHER INTERESTING INFORMATION**

- Table tennis enthusiast
- Snow skier
- Leadership follower
- CTF Competitor on Shellphish
- Former professional poker player