

ERIK TRICKEL

TRICKEL.COM

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EDUCATION

ARIZONA STATE UNIVERSITY

Tempe, Arizona

PhD in Computer Science

Expected Graduation August 2023

SOUTHERN METHODIST UNIVERSITY DEDMAN SCHOOL OF LAW

Dallas, Texas

Juris Doctor

May 2009

Graduated magna cum laude (top 5%) and licensed in Texas in November 2009 (currently inactive)

TARLETON STATE UNIVERSITY

Stephenville, Texas

Bachelor of Science in Computer Information Systems

December 1995

TECHNOLOGY EXPERIENCE

ARIZONA STATE UNIVERSITY

Tempe, Arizona

Research Assistant for Dr. Adam Doupé

August 2016 – Present

- Research and publish on program analysis of compiled and interpreted software applications
- Participate on multi-institutional research projects
- Mentor and Assist with questions and related issues

Teaching Assistant for Dr. Adam Doupé (CSE340)

August 2016 – December 2016

- Prepared lectures and presentations for weekly recitation sections
- Managed student relationships on behalf of professor responding to student concerns
- Tutored and mentored students

Teaching Assistant for Dr. Robert Atkinson (CPI101, CSE464)

August 2015 – May 2016

- Created all homework assignments, projects, and exams
- Taught several classes each semester
- Managed student relationships on behalf of professor responding to student concerns
- Tutored and mentored students

Taught ASU 101

August 2015 – May 2016

- Prepared motivational lectures, assignments, and taught classes
- Coached and mentored students

ORDER OF THE OVERFLOW

Tempe, Arizona

Challenge Writer

August 2017 - August 2021

- Worked on the Order of the Overflow team comprised of an amazing team of security experts to host the DEFCON CTF qualifiers and finals
- Developed unique capture-the-flag challenges using a wide range of languages and applications
- Deployed and supported the competition's Kubernetes based infrastructure

UNIVERSITY OF TEXAS AT DALLAS

Richardson, Texas

Teaching Assistant for Dr. Straach

January 2014 – May 2014

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- Graded student papers and answered student questions

Lab Assistant for Professor Vogel

September 2013 – December 2013

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- Taught the weekly C programming lab

NUANCESYS*Software Developer*

November 2010 - August 2019

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- Conceived, designed, developed, and published a complicated tracking and statistical software application for Android devices using Java and SQLite
 - Organize, prioritize, and implement the various feature requests made by the application's users
 - Created training and educational videos for users

L-3 COMMUNICATIONS (FORMERLY KNOWN AS RAYTHEON)

Dallas, Texas

Principal Engineer

June 2001 – August 2005

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- Resolved mission critical business problems by providing both advisory and technical assistance
 - Led small and large scale application development projects that relied on Java and Oracle
 - Mentored and coached programmers
 - Created presentations for upper management on complex technology issues

I-BEAM BROADCASTING

Frisco, TX

Advisory Engineer

December 99 – June 01

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- Advised senior leadership on technical direction and decisions
 - Led small and large scale application development projects that relied on Java and DB2

OTHER EMPLOYERS

Dallas, Texas

Business Systems Analyst

January 1996 – December 1999

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- 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 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 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 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
- *Deep 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