BRENT ESKRIDGE PHD

Cybersecurity · Threat Intelligence · Collaborative Research · Computer Programming

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Skills Summary

Threat Intelligence
Research & investigation
TryHackMe Top 0.5%

Data analysis & visualization Technical storytelling Written & oral communication Python, Bash, C/C++, R, SQL Algorithms & data structures Mentoring & teaching

Employment Experience Highlights

Threat Intelligence Analyst - IronNet

2021 - 2022

- · Co-led internal and external briefings on recent cybersecurity developments and trends with responsibilities including: identifying relevant content, developing briefing materials, performing briefings, and answering questions. Topics of specialty included cybercrime and communicating technical concepts.
- · Collaborated with proactive threat engineers to produce actionable intelligence from data gathered from threat actor command and control (C2) servers using Cobalt Strike and other frameworks.
- · Collaborated with network threat hunters to identify potential threats, track threat actor actions after an attack using logs, and create after action reports and articles about our findings.
- · Led the creation of IronNet's first annual threat report with responsibilities that included: identifying and organizing content, analyzing data and creating visualizations, coordinating with graphic designers, and creating content. The report resulted in IronNet's largest media engagements to date.
- · Authored articles and infographics discussing technical details of observed cyber attacks and high-level trends in cybersecurity. Topics covered included: Log4j, Cobalt Strike, and critical infrastructure. The articles were in the top 10 most read IronNet publications to date.
- · Developed Python scripts to automate: data extraction, analysis, and visualization; import and export of of research data between platforms; and generation of weekly threat reports to customers.

Professor & Dept. Chair, Dept. of CSNE - Southern Nazarene University

2004 - 2022

- Proposed, secured, and managed three interdisciplinary research projects that applied machine learning to biologically-inspired models of collective behavior. Projects had funding in excess of \$380,000 and consisted of two National Science Foundation (NSF) research grants and a sabbatical at the Max Planck Department of Collective Behaviour in Konstanz, Germany.
- Led six research projects with responsibilities including: building collaborative teams; defining and managing scope; identifying and assessing potential techniques; managing and analyzing data; drawing insights and implications from results; and communicating and contextualizing findings.
- · Collaborated with diverse teams of researchers to publish 17 peer-reviewed research papers and make 25 presentations at research conferences across North America and Europe.
- · Designed, implemented, and maintained software for eight different research projects using concepts that included neural networks, reinforcement learning, fuzzy logic, autonomous agents, and multi-agent systems. Software used technologies such as Python, Java, R, Bash scripts, Ant, YAML, and GitHub.
- · Mentored and taught students in the Cybersecurity, Computer Science, Software Development, and Network Engineering programs, with over 90% of graduates successfully employed in their field.
- Designed, taught, and assessed over 20 different Computer Science courses covering topics that included: software development, operating system concepts, computer architecture, Linux, algorithms, data structures, database systems, network programming, and ethics in technology.
- · Performed manual static and dynamic code analysis on student code to assist in debugging and ensure requirements compliance. Languages included Python, Java, C/C++, MIPS assembly, Bash, and SQL.

- · Led the Computer Science and Network Engineering department and its five degree programs for eight years with as many as 10 adjunct and full-time faculty and 50 enrolled majors in a semester.
- · Elected three times to the Faculty Senate by peer faculty. Served twice on the faculty rank advancement committee, once as co-chair with the provost. Other committees included: NASA Space Grant Committee, Technology Advisory Committee, and Faculty Representative to the Board of Trustees.

Software Consultant & Co-owner - els Solutions, LLC

2000 - 2003

- · Co-architected an object-oriented Java web application running on Linux which interfaced with a multi-valued (non-SQL) database residing on a Unix mainframe.
- · Designed, implemented and tested the application's storage subsystem using Java, JDBC, and MySQL.
- · Collaborated with co-owners in making day-to-day business decisions, including project proposal and planning, budgeting, and customer negotiation. Led company networking and marketing efforts.

Other Experience Highlights

- · Operate a home cybersecurity learning lab using tools including: Kali Linux, pfSense, FLARE VM, REMnux, Trace Labs OSINT, ThreatPursuit VM, Linux Mint, CentOS, and VirtualBox.
- · Completed numerous TryHackMe and RangeForce training rooms, including topics such as: VirusTotal, Splunk, Yara Rules, Suricata, Wireshark, PCAP analysis, OSINT, Malware Analysis, and Ghidra.
- · Implemented and ran machine learning experiments on the supercomputing cluster at the University of Oklahoma, totaling over 415,000 core hours (47 core years) of processing time.
- · Developed tools using Python, Bash, Perl, R, and regular expressions to automatically parse, process, and analyze large experimental data sets, including automatic generation of statistics and visualizations.
- · Earned and maintained a security clearance at a previous employer (currently inactive).

Education

Ph.D. Computer Science - University of Oklahoma

2009

M.S. Computer Science - University of Oklahoma

2004

B.S. Physics and Mathematics - Southern Nazarene University

1995

Relevant Certifications & Accomplishments

- · eLearnSecurity Junior Penetration Tester (eJPT)
- · CompTia Security+
- TryHackMe: Top 0.5% (as of 2022.06.23)
- · RangeForce: SOC Analyst 1 Elite, SOC Analyst 2
- AttackIQ: Foundations of Operationalizing MITRE ATT&CK

Relevant Training

- · Black Hills Information Security: Active Defense & Cyber Deception (*June 2021*), Getting Started in Security with BHIS and MITRE ATT&CK (*May 2021*), Network Forensics and Incident Response (May 2022)
- · Active Countermeasures: Cyber Threat Hunting (May 2021)
- · INE: Cloud Foundations *August 2021*, Reverse Engineering Professional (*July 2021*), Malware Analysis Professional (*July 2021*), Penetration Testing Student (*May 2021*)
- · TCM Security: Open-Source Intelligence Fundamentals (July 2021), Practical Ethical Hacking (June 2021)

Volunteer Experience

- · Developed and led a free 13-week YouTube series introducing Python to non-programmers
- · Served as a peer reviewer for 3 research journals and 5 research conferences and as a grant proposal reviewer for the National Science Foundation.
- · Mentored Bethany High School and Elementary robotics teams from 2015 to 2019.
- · Led ethics training for SNU NASA Space Grant Summer Research students in 2013–2018 and 2021.

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