

Adam L. Sealey

(925) 709-4565
Adam.Sealey@gmail.com
<http://adamsealey.com>

EDUCATION

Baylor University, Waco, TX USA

M.Sc., Computer Science August 2009

- Graduate GPA: 4.0
- Thesis: Solving the F/A-18 Mission Computer Virtual Memory Problem
- Advisor: Dr. David B. Sturgill

B.Sc., Computer Science May 2004

- With Honors in Computer Science
- Undergraduate GPA: 3.71 (Major 3.90)

CERTIFICATIONS

CISSP, EnCE

PROFESSIONAL EXPERIENCE

NIKE Inc. - Global Corporate Information Security, Beaverton, OR

Director, Information Security Governance and Metrics **June 2016 – Present**

- Accountable for Enterprise-wide information security program aligned with ISO
- Lead delivery of portfolio-wide metrics, utilized at Board & senior leadership levels
- Accountable for ensuring all security programs operate in accordance with Enterprise security policies
- Oversee security exception and risk register processes, providing foundation for risk-driven strategic alignment for the security program
- Serve as a primary GRC liaison to Internal Audit, Legal, and Privacy Counsel

Director, Cyber Threat Analytics **April 2014 – May 2016**

- Established new analytic team and capability focused on collecting large amounts (>10TB/day) of security logs and identifying malicious behavior
- Leveraged new capability to divest outsourced MSSP, saving over \$500K annually
- Led combination of Splunk capability across five Nike groups under one instance, saving over \$75M in 3 years
- Defined strategic vision and road-map for advanced security analytic capabilities leveraging machine learning
- Responsible for management of entire security portfolio finances, totaling over \$50M

Senior Information Security Engineer **April 2013 – April 2014**

- Led strategic direction for threat intelligence and analytics
- Designed and led implementation of security analytics capability leveraging Splunk
- Led computer forensics capability, in coordination with Legal
- Provided Tier 3 incident response, including mentoring Tier 1 and 2 analysts
- Designed and implemented automation across security function, reducing mean time to resolution by 92%

Baylor University - Information Technology Services, Waco, TX

Senior Information Security Analyst

September 2010 – Present

- Principal technical analyst reporting to university CISO
- Technical lead for PCI compliance effort including project management of technical implementations. Member of the Payment Card Oversight committee responsible for payment card usage university wide.
- Led development and operation of technical detection mechanisms for security incidents.
- Developed incident response process and lead incident response team
- Provided computer forensic support for internal and criminal investigations in coordination with Baylor Police and Office of General Counsel
- Assisted in development of campus-wide security policies and roadmaps, in addition to standard vendor contract reviews and negotiations
- Conducted exploratory research into emerging security technologies

Information Security Analyst

January 2008 – August 2009

- Principal technical analyst reporting to the university CISO
- Provided computer forensic support for internal and criminal investigations in coordination with Baylor Police and Office of General Counsel
- Reviewed and approved network firewall policy requests and implementations
- Administered Intrusion Prevention (IPS) hardware and software, along with Network Anomaly Detection system (ADS)
- Conducted exploratory research into emerging security technologies

Network Security Analyst / Programmer

August 2004 – January 2008

- Defined and implemented procedures to identify and remediate cyber-security threats utilizing firewalls, IPS, and ADS
- Developed customized software packages to facilitate monitoring, securing, and troubleshooting the network
- Provided technical insight for hardware and policy decisions, including business impact of technology acquisitions, affecting more than 8,000 networked devices
- Coordinated with other groups within the university to identify and resolve IT issues quickly
- Administered departmental Linux servers of a variety of flavors, including Redhat, Gentoo, and Ubuntu, as well as MySQL

Baylor University - School of Engineering and Computer Science, Waco, TX

Adjunct Professor of Computer Science

January 2012 – December 2012

- Instructor for Data Structures (Spring 2012, Fall 2012)

Lawrence Livermore National Laboratory, Livermore, CA

Senior Cyber Security Specialist

August 2009 – September 2010

- Served as cyber security subject matter expert for internal research project SETAC
- Led technical execution of Test and Evaluation on SETAC
- Liaison between security research groups and security operations teams
- Implemented and automated CWSandbox to enhance rapid-response forensic capability of Incident Management Team (IMT)
- Assisted in redesign/implementation of web log analysis scripts/routines, including correlation with full-packet capture
- Mentored 6 summer interns working in varying security related fields as part of 2010 CyberDefenders intern program
- Designed/implemented VMWare infrastructure for IMT
- Provided in-depth network forensics and cyber security incident response to entire DOE Complex
- Work required DOE Q/SCI security clearance with SSBI

National Security Agency, Washington DC

Summer Program for Operations Research Intern

June 2007 – August 2007

- Developed new quantitative algorithms in contribution to the BLACKPEARL analytical tool (including analysis of existing procedures, new algorithm design, production-level implementation in Java called DaveyJones, and extensive performance testing on terabytes of data)
- Presented algorithms, implementation, and results to Network Analysis Center senior management and the BLACKPEARL team
- Fully documented technical basis of algorithms as well as implementation details and performance results in a formal 30 page technical paper
- Conducted detailed code review with BLACKPEARL team in preparation for the DaveyJones implementation to be extended and incorporated into production
- Attended technical seminars on various topics including Multi-Objective Decision Analysis (MODA), Visual Basic for Applications (VBA), and network applications in operations research
- Work required security clearance: TS/SCI, passed Agency Special Background Investigation (SBI) and accompanying full-scope polygraph

PUBLICATIONS

- Merl, D., Ng, B., Bartoletti, T., Sealey, A. L., & Johnson, G. *Towards Analytic Agents: Exploratory Analysis of Foraker Data*. Internally published technical report for DOE research project, May 2010
- Sealey, A. L., & Allen, J. *Whole Disk Encryption Evaluation and Deployment Effective Practices* paper for Internet2, 2008

CONFERENCE PUBLICATIONS

- Sealey, A. L. & Allen, J. *Baylor's prioritized approach to PCI-DSS compliance* Presentation at Treasury Institute for Higher Education PCI/DSS Workshop 2011
- Sealey, A. L., Allen, J., & Swaren, S. *Two Diverse Approaches to PCI-DSS Compliance* Presentation at EDUCAUSE Security Professionals Conference 2011
- Sealey, A. L. *Towards in-depth automated malware analysis* Presentation at DOE Cyber Security Conference 2010
- Sealey, A. L., & Allen, J. *Exploring Encryption Tools and Implementations in Higher Education* Pre-conference seminar for EDUCAUSE Security Professionals Conference 2009
- Sealey, A. L., & Allen, J. *Whole Disk Encryption Evaluation and Deployment* Presentation at EDUCAUSE National Conference 2007, EDUCAUSE Southwest Regional Conference 2008, and EDUCAUSE Security Professionals Conference 2008

AWARDS

NIKE Inc.

- Nike Technology Maxim 0.6 "Be A Sponge" for Splunk Nation, 2016

Lawrence Livermore National Laboratory

- Co-Captain of 2010 TracerFIRE2 cyber security competition 1st place team

Baylor University

- Who's Who Among Students in American Universities, 2009
- School of Engineering/Computer Science full tuition graduate scholarship, 2004
- Baylor Dean's List, 2001–2006
- Baylor Presidential Scholarship 2000–2004

National Security Agency

- Summer Internship STAR Award, 2007

TECHNICAL SKILLS Programming/Scripting: C, C++, Java, Python, Linux shell scripting, SQL, Version Control (Git, Mercurial, CVS, SVN), and others

Data Analysis Tools: Splunk, ElasticSearch, Hadoop, Tableau

Forensic Tools: EnCase, Gargoyl, dd

Malware Analysis Tools: Pandas IDA Pro, HexRays, OllyDbg, CWSandbox