Jacob Arthur, Ph.D., CPA, CISSP, CEH, QSA
jacob.arthur@lipscomb.edu

Certifications

HITRUST Certified CSF Practitioner (CCSFP)
PCI Qualified Security Assessor (QSA)
Certified Information Systems Security Professional (CISSP)
Certified Information Systems Auditor (CISA)
Certified Ethical Hacker (CEH)
Certified Public Accountant (CPA)
Certified Technical Guideline Auditor (CTGA)
Microsoft Competencies: Windows & Devices, Azure Cloud Platform (Technical), Enterprise Mobility, Data Platform & Analytics

Education

2017 - Doctor of Philosophy in Computer Information Systems, Concentration in Information Assurance (Nova Southeastern University)
2008 - Masters of Accountancy (Lipscomb University)
2008 - B.S. in Computer Science (Lipscomb University)
2008 - B.S. in Accounting (Lipscomb University)

Professional Organizations

ISACA (Information Systems Audit and Control Association), Former Board Member
ISSA (Information Systems Security Association)
InfraGard
Nashville Technology Council
Tennessee Society of CPAs

Professional Experience

Lipscomb University, Assistant Professor of Information Security & Analytics

Developed a Masters program in Information Security that provided students with a full-range of exposure to information security topics including issues ranging from secure system planning and design to risk management and program leadership.

Designed and taught numerous courses in Information Security Design and Execution including the capstone information security class that included hands-on training and experience with both network and software security issues.

Formos Consulting, Partner, Security, Technology & Risk

Developed and led the Security & Technology team at Formos Consulting (formerly FDH Consulting) including oversight of key projects of the practice. Specific areas of focus include the following:

- Lead outsourced CISO and Security Program Design and Management engagements for companies with up to $3B in revenue.
- Oversee secure software engineering and reverse engineering efforts to address client needs regarding software interoperability and data extraction.
- Designed methodology for and led security assessments and penetration tests for many companies, including numerous public companies as well as large private entities.
- Oversee forensic and computer security incident response engagements including litigation support and internal investigations dealing with eDiscovery issues, theft of intellectual property, misappropriation of resources, violation of acceptable use, harassment, and discrimination.

Corizon Health, CISO & HIPAA Security Officer

Led a complete overhaul of the Information Security function for Corizon Health, a nation-wide correctional healthcare company, and served as the HIPAA Security Officer dealing with HIPAA-related technology issues as well as advising on HIPAA Privacy issues from a technical perspective.

Additionally, oversaw and advised on the security architecture and development of a purpose-built mobile device EHR platform to address specific correctional environment challenges.

Sentry51, Founder & Chief Architect

Envisioned and architected the Sentry51 Security Monitoring platform, including leading development of the initial prototype and launch version of the software.

SDSForums, Co-Founder & Chief Architect

Led technical design and architecture for the development of the SDSForums Chemical Safety Information Platform, including algorithmic design and implementation of a novel approach to quantitative analysis of chemical safety and environmental impact.

Public Speaking

"A Technical Analysis of the Software Design Issues in the Solarwinds Attack" – ISACA, January 2021

"Emerging Technologies and Security Control Impact" – Lipscomb University, Updating the Professional Accountant Seminar, December 2020

"Lessons Learned from Security Breaches" – Lipscomb University, Updating the Professional Accountant Seminar, December 2020

"Applied Technology & Analytics" – Lipscomb University, Updating the Professional Accountant Seminar, December 2019

"Blockchain Impacts on the Accounting Profession" – Lipscomb University, Updating the Professional Accountant Seminar, December 2018

"The Blockchain Revolution: Software Design and Auditability" – IIA, November 2018

"An Introduction to Blockchain Issues for Auditors" – State of Tennessee Department of Audit Annual State-Wide Conference, April 2018

Blockchain Design & Security Challenges – FEI Nashville Conference, December 2017

"Current Software Security Issues" – IIA & ISACA Nashville Joint Meeting, October 2017

Information Security Update – FEI Nashville Conference, November 2016

"Secure Software Design and OWASP" – Tractor Supply Company Seminar, April 2016

"Top 10 Questions You Should Be Asking Your Information Security Officer" – IIA Regional Conference, April 2016

"IT Audit Issues & Update" – Lipscomb University, Updating the Professional Accountant Seminar, December 2015

"IT Audit Issues & Update" – Lipscomb University, Updating the Professional Accountant Seminar, December 2015

Current Information Security Issues in Retail – National Retail Federation Annual Conference, October 2014

"Top 10 Questions You Should Be Asking Your Information Security Officer" – ISACA, October 2014

"Software Security & Mobile Devices" – National Restaurant Association Annual Conference, March 2013

"Information Security Monitoring" – IIA, November 2012

"Lessons Learned from Data Breach Investigations" – IIA sponsored by Symbion, November 2011

"Secure Software Design and Common Flaws: A hand-on experience" – ISACA, November 2010

"Protecting your Credit Card Environment" – IIA, November 2010

Note: Does not include regular class schedule at Lipscomb University, which includes classes in Information Security, Technology & Software Audit, Secure System & Network Design, and Applied Analytics