



ISSA

Information Systems Security Association



Monthly Meeting December 13, 2017

Central Maryland Chapter Sponsors:

Clearswift, LogRhythm, Logical Operations, Parsons Cyber,
Phoenix TS, Red Owl Analytics, Tenable Network Security, Vencore



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Agenda / Announcements

- Welcome to Parsons
- Any guests or new members in attendance?
- (ISC)² CPE Submissions – Individual Responsibility
- CISSP Chapter Badges / Shirts and Jackets with ISSA-Central MD Logo
- CISSP & Study Group
- Future Meeting schedule

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Please respect the speakers and other members,

Silence or turn off cell phones and electronic devices,

No video or audio recordings.

Thanks

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Board of Directors

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CYBRARY

<https://www.cybrary.it/>

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Crowdsourcing the Cyber Security Talent Gap

What Airbnb, Amazon, and Uber teach us
about solving problems at scale

Ryan Corey
President, Co/Founder Cybrary





Why Do We Have a Talent Gap?

Is there high friction?

What are the options for people who want to join the industry?

What are the options for people who want to skill up?

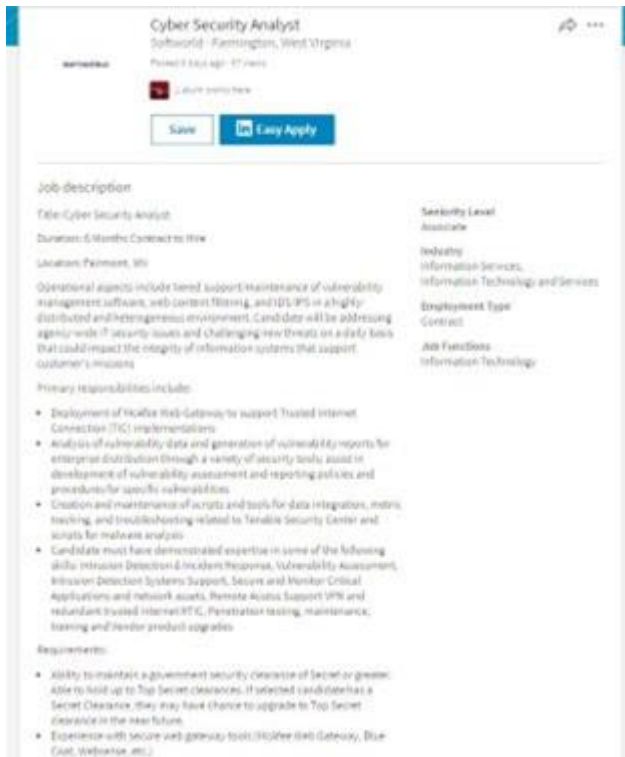
Are the current learning solutions most effective?

How long does it take for course content to reach end points?

Limited classroom time versus persistent access?

How do you scale content curation?

A Better Way to Develop IT and Cyber Careers?



The screenshot shows a job listing for a Cyber Security Analyst at Software.com, located in Farmington, West Virginia. The listing includes a 'Save' button and an 'Easy Apply' button. The job description is as follows:

Job description

Title: Cyber Security Analyst

Duration: 6 Months Contract to Hire

Location: Farmington, WV

Operational aspects include tiered support, maintenance of vulnerability management software, web content filtering, and IDS/IPS in a highly distributed and heterogeneous environment. Candidates will be addressing significant IT security issues and challenging new threats on a daily basis that could impact the integrity of information systems that support customer's missions.

Primary Responsibilities include:

- Deployment of McAfee Web-Gateways to support Trusted Internet Connection (TIC) implementations
- Analysis of vulnerability data and generation of vulnerability reports for enterprise distribution through a variety of security tools; assist in development of vulnerability assessment and reporting policies and procedures for specific vulnerabilities
- Creation and maintenance of scripts and tools for data integration, metric tracking, and incident/hunting related to Tanium Security Center and scripts for malware analysis
- Candidate must have demonstrated expertise in some of the following skills: Intrusion Detection & Incident Response, Vulnerability Assessment, Intrusion Detection Systems Support, Secure and Monitor Critical Applications and network assets, Remote Access Support VPN and redundant trusted Internet PTC, Penetration testing, maintenance, training and vendor product escalates.

Requirements:

- Ability to maintain a government security clearance of Secret or greater. Able to hold up to Top Secret clearances. If selected candidate has a Secret Clearance, they may have chance to upgrade to Top Secret clearance in the near future.
- Experience with secure web gateway tools (McAfee Web Gateway, Blue Coat, Websense, etc.)

Security Level: Associate

Industry: Information Services, Information Technology and Services

Employment Type: Contract

Job Functions: Information Technology

What if IT professionals could quickly and efficiently acquire and prove new skills, while being guided by the jobs they are targeting?

These skills are unique to the organization, dynamic and change rapidly.

It's 2017, the traditional certification model is no longer the best solution for an industry that should be built around:

- Driving 10X more participants
- Real time evolution of content
- Guiding people intelligently



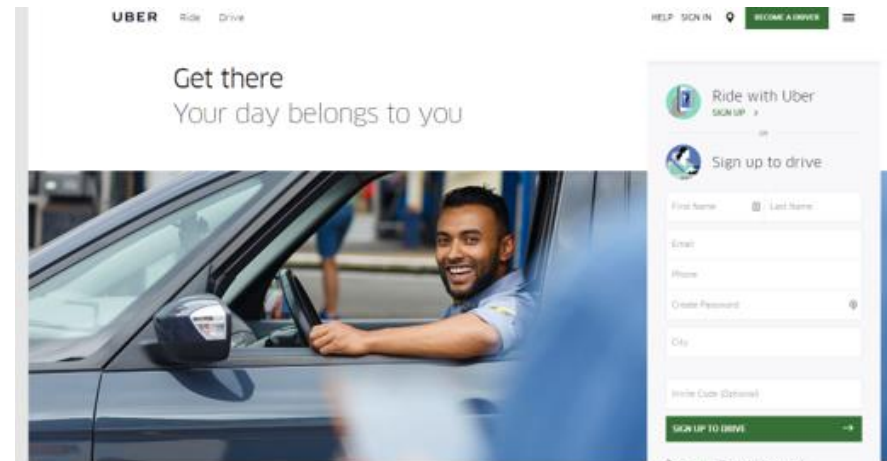
Uber, AirBnB, and Amazon May Have the Answer?

Frictionless: Uber Removed Friction for Riders and Drivers

Drivers: Expensive cars and licensing, carry lots of cash, adhere to a schedule, unpredictable riders

Riders: Hailing a cab is inconvenient, arrival is unpredictable, carrying cash, unpredictable drivers

Key Takeaway: By Removing the friction to enter, 50x more people participate in either driving or riding a “taxi” service



Crowdsourced: AirBnB Doesn't Own Hotel Rooms or Experiences

Instead, they play the role of matchmaker and facilitator for accommodations, experiences and dining.

Their job is to facilitate a great experience for their crowd of producers and consumers. Users can side-switch as well.

Therefore, ANYONE can provide product on AirBnB.

Key Takeaway: AirBnB expanding into a new market, simply involves allowing people to post their listings in that market. Versus a hotel chain, which needs to plan, build and open a new facility.

Airbnb

Book unique homes and experience a city like a local.

Where: Anywhere When: Anytime Guests: 1 guest Search

FOR YOU HOMES EXPERIENCES PLACES

Experiences



0125 Explore and taste Tomona in a... 0172 Enjoy a private happy hour with... 0175 Inspire intuition in an Echo Park... 021 An intimate music night with...

Data: On Amazon, Usage Creates a Customized Experience and Quality Control

The more they know about you, and people similar to you, the better tailored your solution becomes.

Key Takeaway: Data from a scaling user base can improve time spent in an online platform, which improves outcomes for all users.





Now, knowing what we know...

How do we address the IT and cyber security talent gap at scale?

Follow these 3 steps...



Step 1

Scale Like Uber: Remove the friction to entry

In order to multiply the participants, the ability to enter and learn must be free.



Step 2

Do Inventory Like AirBnB: Allow the entire market to participate in the solution


Add to the platform, all people and companies that are creating learning content and learning technologies.



Step 3

Guide Like Amazon: Data can help prepare the greatest customized solutions

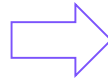
Leverage training path, learning and assessment data from companies and users to craft continually evolving career development experiences.



Results: Create a free and crowdsourced learning and assessment platform that intelligently develops IT and cyber careers

Cyber & IT Professionals:

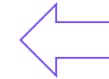
Create and maintain courses, build profiles through learning and assessment



CYBRARY

Cyber & IT Companies:

Contribute product-based courses, train employees, find new talent, market to the industry



Learning and Assessment Technology Vendors:

Add learning and assessment technologies to Members and through our Enterprise Platform



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Malwarebytes

<https://www.malwarebytes.com/>

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New Members Since November 2017 Meeting

**Kenneth Fields
John Galliano
Natalia Khavlina
Shelby Kisamore
Kevin Walsh**

284 Total Members

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Senior Membersip

Any member can achieve Senior Member status. The criteria is 5 years of ISSA membership, 10 years relevant professional experience, and endorsement from a Senior Officer in your home chapter.

Fellow Membership

The Fellows Program recognizes sustained membership and contributions to the profession. Fellow status will be limited to a maximum of 2% of the membership. Newly awarded Fellows will be recognized at the 2018 ISSA International Conference. Applications will be accepted until March 23, 2018.

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International

**In recognition of exceptional service to the security community
and a significant contribution to Local, State and National security posture or capability,
the Officers and Board of Directors of ISSA International certify that:**

Robert C. Smith

**ISSA Senior Member
2017 Cycle**

**Keyaan Williams
President
ISSA**





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Spring 2018 CISSP Study Group

Start: February 13, 2018

End: May 15, 2018

Review and Practice Exam

14 Sessions Total

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New Spring Study Groups

AWS Certification

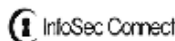
CompTIA Security+

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You are invited to attend a special STEM and CYBER industry, non-profit, youth, and women's **CONNECT event** hosted by **SANS Cyber Defense Initiative 2017**. Our additional partners include ACM Women, ASQ Software SIG, CyberSN, George Mason's Game and Technology Academy and Virginia Serious Game Institute, ISACA's SheLeadsTech, InfoSec Connect, ISSA International Global SIGs - Women In Security Special Interest Group (WIS SIG), Million Women Mentors, National Center for Women in Information Technology, National Cybersecurity Student Association, National CyberWatch Center, SIM Women, STEMconnector, STEMforHER, Women in Technology International, and Women's Society of Cyberjutsu. Our local *ISSA International Chapter hosts* are **Central, Maryland, National Capital Region, and Northern Virginia**.

Join us on **December 15, 2017** at the **Washington Hilton**, 1919 Connecticut Avenue NW, Washington DC 20009

- 4:00 – 5:30 PM Cyber and STEM Challenges and Puzzles (Youth and Adult)
- 5:30 – 6:00 PM Cyber and STEM Panel Discussion (Youth and Adult)
- 6:00 – 7:15 PM STEM/Cyber Ambassadors, Mentoring, Networking, Scholarship Talks, and Mixer
- 7:15 – 9:15 PM scheduled SANS@Night Evening Talks

Join us for an evening of fun, networking, and cybersecurity education in support of the NCR area Girl Scouts, middle-school, high-school, and college students, among others. Youth & Adult Cyber Challenges, an informative and fun panel, STEM/Cyber Ambassadors, mentoring, networking, scholarship information, SANS@Night sessions, and information on joining, participating in, and supporting our STEM and CYBER partners. Support our multi-generational mixer, become an ambassador, champion, and help mentor along our next generation of STEM and CYBER talent. Attendance is **FREE**. All are welcome!

- Registration for all youth and adult PROGRAM attendees: <http://tinyurl.com/sans-dc-122017-connect-program>
- Registration for our non-profit partners: marketing table tops, attendee give-away gifts, etc.: <https://tinyurl.com/sans-dc-122017-connect>

A full calendar listing of future SANS events can be found at: <https://www.sans.org/security-training/by-location/north-america>. For any additional questions, please reach to our SANS Representatives, Ms. Deanna Boyden and Tabitha Flax at coins@sans.org or our ISSA Intl WIS SIG Representative, Ms. Rhonda Farrell, at Rhonda.Farrell@issa.org.



Support Our SIGs!

- **Financial**

- Ms. Andrea Hoy

- **Healthcare**

- Mr. Andy Reeder

- **Security Awareness**

- Ms. Jill Feagans
- Mr. Kelley Archer

- **Women In Security**

- Ms. Domini Clark
- Rhonda Farrell



2017 Scholarship Giving Program



WIS SIG Scholarship Fund

- Donate Online:
<http://issa-foundation.org>
- Email Us for Info:
wissig@issa.org



ISSA International Journal Articles



The Information Systems Security Association, Inc. is an international organization that acts as the "Preminent Trusted Global Information Security Community." The ISSA Journal is published to support ISSA's mission of promoting management practices that will ensure the confidentiality, integrity and availability of organizational information resources.

The ISSA Journal – 2017 Editorial Calendar

JANUARY

Best of 2016

FEBRUARY

Legal, Privacy, Regulation, Ethics

Editorial Deadline 1/6/17

MARCH

Internet of Things

Editorial Deadline 1/22/17

APRIL

New Technologies in Security

Editorial Deadline 2/22/17

MAY

The Cloud

Editorial Deadline 3/22/17

JUNE

**Big Data/Machine Learning/
Adaptive Systems**

Editorial Deadline 4/22/17

JULY

Cybersecurity in World Politics

Editorial Deadline 5/22/17

AUGUST

Disruptive Technologies

Editorial Deadline 6/22/17

SEPTEMBER

Health Care

Editorial Deadline 7/22/17

OCTOBER

Addressing Malware

Editorial Deadline 8/22/17

NOVEMBER

**Cryptography & Quantum
Computing**

Editorial Deadline 9/22/17

DECEMBER

**Social Media, Gaming, and
Security**

Editorial Deadline 10/22/17

Authors may be eligible for CPE credits.

Theme descriptions may be found at www.issa.org/?page=ISSAJournal. Click on "Call for Articles" at top of page.

EDITOR@ISSA.ORG - WWW.ISSA.ORG

Please contact SIGs@issa.org if you are interested in submitting a SIG



<http://www.issa.org/?page=ISSAJournal>



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ISSA 2017-2018 Meetings and Events

Date	Speaker	Organization	Topic
December 13, 2017	Scott Messick	ClearSwift	Enhancing Information Security in Microsoft Office 365
January 24, 2018	Carl Elsinger	DuoSecurity	Enterprise Remote Access Visibility
February 28, 2018	Archana Ragothaman	ExtraHop Networks	Defending Against Advanced Attacks with Network Analytics
March 28, 2018	Panel Discussion	Multiple	Security Lead Discussion
April 25, 2018	Ken McCreedy	MD Department of Commerce	Maryland Cybersecurity initiatives
May 23, 2018	Greg Cullison	Big Sky Associates	Preventing Insider Threats: Insights from the Field
June 27, 2018	Diane Groth	Independent Cybersecurity Consultant	Critical Infrastructures, Privacy and Security

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December 13, 2017 Speaker

Scott Messick, Senior Sales Engineer, ClearSwift

Scott Messick is a Senior Sales Engineer with Clearswift based in New Jersey. In this role he works with the largest Clearswift customers and prospects across North and South America. Scott joined Clearswift about one year ago, after 12 years with Credit Agricole Corporate Investment Bank (CA-CIB). While with Credit Agricole, Scott was a Windows Technical Lead, a Windows Platform Engineer, a Windows Platform Group Manager and was promoted to Vice President. Scott also served on the IT and IT Security Management Committees that oversaw all North and South America IT and IT Security infrastructure operations for the Bank.

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Enhancing Information Security in Microsoft Office 365

Many organizations across various verticals have either moved or are strongly considering a move to Office 365. Yet, these systems represent a substantial threat of data loss due to hackers, phishing and insider threats – and the threat landscape is continually evolving. Today, advanced security and data loss prevention features are needed to combat information borne threats across email – from within and outside the organization. However, Microsoft Office 365 only has basic security features. This presentation will examine that threat landscape and Clearswift's or other Secure Email Gateway's ability to substantially enhance Office 365 security via an integrated approach

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