

CYBER SECURITY 2015

PRESENTED BY CAL STATE FULLERTON

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

FRIDAY, NOVEMBER 13, 2015 * 8:00 AM - 3:00 PM * STUDENT HOUSING - JUNIPER 111



Amir Dabirian, Vice President of Information Technology
California State University, Fullerton
Presentation: *State of Information Technology and Cyber Security Strategies*

This presentation will provide a general and sanitized overview of technology, the campus network components and what actions are being taken to mitigate campus exposure to hostile Internet entities.



Mourad Kourtab and Jennifer Nguyen
Vice President and Treasurer
Offensive Security Society

Presentation: *Catalyzing and Cultivating Security Literacy*

The Offensive Security Society is a student organization formed from the need for education regarding software and hardware security. Unlike traditional security, sometimes thought of as "defensive security", offensive security is a proactive and adversarial approach to protecting Computer systems, networks and individuals by attacking and testing systems before they are breached from the outside. Our mission is to educate and empower students to take an offensive approach to security and to provide safe and control environments and competitions to test their skills.



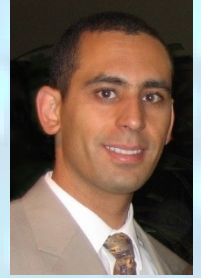
Khaled Tawfik, Chief of Information Technology and **Erick Weber, Information Security Officer**
County of Los Angeles, Department of Public Works
Presentation: *Cyber Security – The Changing Landscape*

The cyber security landscape has changed drastically over the past 30 years. Gone are the days of the teenage hacker drinking a can of soda and eating a cold pizza while sitting in front of a computer screen in his parent's basement – hacking has become big-business. This discussion will take a look at this changing landscape and the significant evolution of the threat actors, their techniques, motives, and resources. The discussion will also highlight the evolution of the information security role within the corporate environment, and the procedures necessary to combat today's threats.

Anthony Selim, CISSP, P.E.
Raytheon Company

Presentation: *Building Secure Systems*

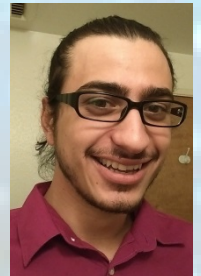
In today's cyber world, computing systems must be designed and built with security in mind. This requires robust processes for the development of secure systems and people who are well trained in cyber security. The most widely recognized security certification is the International Information System Security Certification Consortium (ISC)2, Certified Information Systems Security Professional (CISSP). Completing the certification requires a keen understanding of the 8 security domains: Security and Risk Management, Asset Security, Security Engineering, Communications and Network Security, Identity and Access Management, Security Assessment and Testing, Security Operations, and Software Development Security.



Reza Nickoopour, Consultant
Cigital, Inc.

Presentation: *Increasing Cloud Security with Static Analysis*

Security is always an issue when deploying an application on Amazon Web Services (AWS). In order to help solve this problem, I wrote a static analysis tool for auditing CloudFormation templates for security issues. CFCheck not only checks for some common issues, but allows users with better knowledge of their environment to write custom rules to audit their templates.



Made possible by a grant from **Raytheon**



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Amir Dabirian, Vice President of Information Technology California State University, Fullerton

Amir Dabirian is the vice president for the division of information technology and chief information officer for California State University, Fullerton. Mr. Dabirian oversees all enterprise services of IT in support of the University's mission and strategic plan. Amir has 30 years of experience in the field of information technology and is the former Assistant Vice Chancellor of Information Technology Services (ITS) for the California State University, Office of the Chancellor. Amir has taught numerous courses at the undergraduate and graduate levels in Information Systems and Decision Sciences, Accounting, Computer Science and Extended Education departments. Amir earned his Bachelor of Science degree in electrical engineering with a concentration in computer engineering from California State University, Fullerton. He also earned a Master of Science degree in electrical engineering with a concentration in systems and computer engineering from California State University, Fullerton and a Master of Science degree in computer science from University of California, Riverside. Currently, Amir is a Ph.D. candidate in Industrial Marketing from Luleå University of Technology.



Reza Nickoopour, Consultant Cigital, Inc.

Reza Nickoopour is a consultant for Cigital, Inc. a software security firm that provides a full range of software security solutions and products to its clients such as penetration testing, red teaming, architecture analysis, and code review. While in school Mr. Nickoopour focused his learning on software security since it had already been a hobby. After graduating, Reza began working as an Intern for Cigital where he built a static analysis tool for auditing CloudFormation templates. He joined Cigital full time as a consultant after his internship, where he is currently helping a startup company build out its internal security program. Reza is a recent graduate of Cal State Fullerton with a Bachelor of Science degree in Computer Science.



Antony Selim, CISSP, P.E. Raytheon Company

Antony Selim is a Certified Information System Security Professional (CISSP) and is a licensed Professional Engineer in the State of California. Since 1997 Mr. Selim has been employed at Raytheon Company in Fullerton, California. Antony spent his first 8 years working on wireless communication systems, and more recently he has been working on the security of large integrated computer systems. He is currently one of Raytheon's leaders in Cyber Security and Enterprise Security Architecture. Antony received a Bachelor of Science in Engineering and a Bachelor of Science in Physics from Harvey Mudd College (HMC) in 1997, and received a Masters in Engineering from HMC in 1998 with an emphasis in Communication Theory.



Khaled Tawfik, Chief of Information Technology County of Los Angeles, Department of Public Works

Khaled Tawfik is the Chief of Information Technology for the County of Los Angeles, Department of Public Works. Mr. Tawfik has 25 years of experience as a technical strategist within fortune 500 companies and the government sector. Khaled leads the design, development, and implementation of enterprise business solutions, specializing in eGovernment, GIS, land development, and social media. After receiving a Bachelor of Science degree in Computer Engineering from St. Mary's University, he held a variety of positions including Director of Web Applications at Supply Access and Director of Engineering at Reveal Computer Products.



Erick Weber, Information Security Officer County of Los Angeles, Department of Public Works

Erick Weber is the Information Security Officer for the County of Los Angeles, Department of Public Works. Mr. Weber has over 20 years of experience in the information security field, including work in the financial services, entertainment, and public sectors. Erick earned a Bachelor of Science degree in Information Management from California State University, San Bernardino. He is a member of the Information Systems Audit and Control Association (ISACA), and is a Certified Information Security Manager (CISM) and a Certified Information Systems Auditor (CISA).

