

Andrew Chang

CYBERSECURITY PROFESSIONAL

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CAREER HISTORY

SECURITY CONSULTING ENGINEER

Cisco Systems, Inc., Chicago

May 2019 - present

- Performing both solo and collaborative network and application penetration testing for national and international corporations and non-profits
- Assessed cloud security controls for large international automotive manufacturer
- Created framework to automate validation of vulnerability scanner alerts in cloud backbone network fabric for Fortune 100 information technology company

CYBERSECURITY ANALYST

Georgia Inst. Of Technology, Atlanta

May 2018 - May 2019

- Analyzed security alerts raised by campus endpoint monitoring systems by crafting searches in Splunk, FireEye HX, and other in-house homebrew solutions
- Confirmed conclusions through packet analysis using FireEye PX and Wireshark
- Coordinated departmental IT offices to address risk if necessary
- Wrote procedural documentation for new analysts

WEBSITE DEVELOPMENT INTERN

Jia-Jia-at West Market Hotel, Taiwan

Summer 2017

- Improved hotel website site speed, user activity, and Google Index ranking
- Boosted hotel's website site loading speed by 30%, weekly users by 15%, Google Index from 6th to 1st, and decreased the site bounce rate by 13% using Google Analytics

ACADEMIC HISTORY

GEORGIA INSTITUTE OF TECHNOLOGY

Master of Science in Computer Science

2019 - 2020

- Specialization in Computing Systems
- GPA: 3.80 / 4.00; Graduated with Highest Honours
- Relevant Courses: Reverse Engineering and Exploitation; Advanced Malware Analysis; System and Network Defenses; Cyber-Physical Systems Security; Information Security Policies; Network Security; Secure Computing Systems

Bachelor of Science in Computer Science

2016 - 2019

- Specialization in Computing Systems and Architecture / Information Internetworks
- Certificate in International Affairs
- GPA: 3.90 / 4.00; Graduated with Highest Honours
- Relevant Courses: Advanced Computer Architecture; Intro. to Enterprise Computing; Design of Operating Systems

PUBLICATIONS

Mnemosyne: An Effective and Efficient Postmortem Watering Hole Attack Investigation System

Assoc. for Computing Machinery (ACM)

Nov. 2, 2020

CERTIFICATIONS

Offensive Security Certified Professional

October 2021

Cisco Certified DevNet Associate

January 2021

SKILLS

- Web/Application/Network Penetration Testing
- Software Reverse Engineering
- Static & Dynamic Malware Analysis
- Open-Source Intelligence Gathering
- Risk-based Network Architecture Analysis
- Security Incident Response
- Languages: English, Mandarin Chinese

PROJECTS & ACTIVITIES

GRADUATE RESEARCHER

Georgia Tech IISP

Fall 2019

Researched browser-based auditing approach for watering hole-based attacks that can overcome limitations related to recording necessary semantic information instead of just viewing system calls

ROBOT SUMO TEAM SOFTWARE LEAD

Georgia Tech Robojackets

2016 - 2020

- Led team to first-ever All Japan Robot Sumo Tournament knockout round appearance
- Established new software member training program for the Battlebots sub-team