

# Andrew Chang

CYBERSECURITY PROFESSIONAL

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## CAREER HISTORY

### INFORMATION SECURITY CONSULTANT

Cisco Systems, Inc., Chicago

May 2019 - present

- Performing 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 6<sup>th</sup> to 1<sup>st</sup>, 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
- Risk-based Network Architecture Analysis
- Security Incident Response
- Software and Website Development
- 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