

Andrew Chang

CYBERSECURITY CONSULTANT

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CAREER HISTORY

SENIOR CLOUD SECURITY ENGINEER

Praetorian, Inc., Chicago

Jan 2023 - present

- Performing cloud security configuration and architecture reviews as well as web application assessments for multinational corporations

SECURITY CONSULTING ENGINEER

Cisco Systems, Inc., Chicago

May 2019 - present

- Performed internal and external network, web application, open-source intelligence assessments, and source code reviews for multinational corporations and non-profits
- Led assessment read-out calls to executive audiences
- Developed and maintained Python framework (contributed ~30k lines of code) to automate triage of vulnerability scanner alerts in cloud backbone network fabric for Fortune 15 information technology company
- Assessed GCP security controls for leading international automotive manufacturer

HEAD TEACHING ASSISTANT

Georgia Inst. Of Technology, Atlanta

Jan 2020 - May 2021

- Developed labs and exams for the new CS 6264 - System and Network Defenses online graduate course for the top ranked cybersecurity program in the country.
- Labs included: binary exploitation, end-point security with kernel hooks, and Android WebView phishing attacks.

SECURITY OPERATIONS CENTER ANALYST

Georgia Inst. Of Technology, Atlanta

May 2018 - May 2019

- Analyzed and triaged security alerts raised by campus endpoint monitoring systems by crafting searches in Splunk, FireEye HX, and other in-house homebrew solutions

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Master of Science in Computer Science

2019 - 2020

- Specialization in Computing Systems
- GPA: 3.80 / 4.00; Graduated with Highest Honors
- 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 Honors
- Relevant Courses: Advanced Computer Architecture; Intro. to Enterprise Computing; Design of Operating Systems

CERTIFICATIONS

Offensive Security Exploit Development
In Progress

Certified Kubernetes Administrator
Feb 2023

Offensive Security Wireless Professional
October 2022

Offensive Security Certified Professional
October 2021

Google Cloud Certified Professional Cloud Security Engineer
March 2022

Cisco Certified CyberOps Associate
August 2022

PUBLICATIONS

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

Assoc. for Computing Machinery (ACM)
Nov. 2, 2020

SKILLS

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

INVOLVEMENTS

CRYPTO VILLAGE VOLUNTEER

Hak4Kidz

Fall 2022

WEBSITE DEVELOPMENT VOLUNTEER

DSA National Tech. Cmte. 2022

GRADUATE RESEARCHER

Georgia Tech IISP

Fall 2019