Andrew Chang

CYBERSECURITY PROFESSIONAL

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PROJECTS & ACTIVITIES

GRADUATE RESEARCHER
Inst. of Info. Sec. and Privacy.   Fall 2019

- Automating malware delivery for more robust testing of commercially available anti-virus software

ROBOT SUMO TEAM SOFTWARE LEAD
Robojackets   2016 - present

- Led team to first-ever All Japan Robot Sumo Tournament finals
- Code in C for current robot to run autonomously on a Teensy micro controller
- Established new software member training program for the Battlebots sub-team

TEAM MEMBER
Capstone Project   2018

- Visualizes influences between science fiction authors and scientists
- Data collection using web scraping and name entity recognition
- Database management using MongoDB

SKILLS

- Software
  - Java
  - Python
  - C
  - Swift
  - HTML/CSS/Javascript
  - Assembly
  - Splunk
  - Android
- Languages
  - English
  - Mandarin
  - Japanese
- Certifications
  - Splunk Certified User
  - PentesterLab Yellow Badge

CAREER HISTORY

INFORMATION SECURITY ENGINEER
Cisco Systems, Inc., Chicago   May 2019 - present

- Wrote vulnerability confirmation scripts to make sure that known vulnerabilities are not present
- Shadowed full-time employees on internal network penetration testing engagements
- Completed reports on mock web application and binary exploitation penetration tests

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 speed by 30%, weekly users by 15%, Google Index from 6th to 1st, and decreased the site bounce rate by 13% using Google Analytics
- Translated website from Traditional Chinese to English and vice versa

ACADEMIC HISTORY

GEORGIA INSTITUTE OF TECHNOLOGY
Master of Science in Computer Science   2019 - present

- Specialization in 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: Systems and Networks; Design and Analysis of Algorithms; Applied Combinatorics; Introduction to Information Security; Design of Operating Systems; Computer Networking; Processor Design; High Performance Computer Architecture