CHRISTOPHER NGO

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Skills

LINUX: AWK, BASH, CIFS/SMBFS, GIT, NFS, PXE, RAID, REGEX, ZSH

NETWORK: Cisco IOS, Firebug, OSI Model, Routing, Switching, Subnetting, Wireshark

SECURITY: ACL, BURP, CAINE, EnCase, Fiddler, FTK, IDS/IPS, Kali, Metasploit, Nessus, Nexpose, Nmap, OWASP

VIRTUAL: VirtualBox, VMware Player, vSphere ESXI, Workstation

WEB: Flask, HTML/CSS, JavaScript, jQuery, LAMP Stack, MEAN Stack

Honors

Top 5% of RITx Computer Forensics (21,680 Students)

Winner of Stanford Security CTF 2018

Winner of Stanford Hackathon 2018

Winner of WWC Hackathon 2017

Winner of Silicon Valley Hackathon 2016

Winner of HackingEDU Hackathon 2015

Education

Rochester Institute of Technology (RITx)
Cybersecurity

42 University (SV)
Computer Science

Experiences

Make School
Consultant — Mar 2017 - Current

- Advise on hardware/software engineering projects for students
- Lead workshops and teach iOS development

Cambridge 2 Cambridge
Pentester (U.S. Team Captain) — May 2017 - July 2017

- Placed in Top 15 competitors of MIT Cambridge Cybersecurity National Qualifiers
- Represented the U.S in Forensics and Penetration at University of Cambridge, U.K.

Quanta
Senior Test Engineer (Server NPI & Sustaining) — Jul 2015 - May 2017

Amazon AWS | EMC VxRail | Facebook CDN | Microsoft Azure/Bing | Open Compute Project | QCT STRATOS | QuantaGrid | QuantaPlex | QxStack (VMware EVO SDDC)

- Designed and managed 40GbE/100GbE lab networks powered by Arista EOS, Cisco IOS, Delta ONIE, Facebook/OCP FBOSS, Juniper Junos OS, and Palo Alto Networks Firewalls
- Developed and released L10-L11 server rack system test software in BASH, C, Perl, Python, SQL, and TTL
- Wrote Linux automation programs for server mass-production tests and firmware flash (BIOS, BMC, CMC, FRU, HDD, Intel ME, NIC, RAID, SSD, TPM)

Hackathon Hackers
Hacker | Mentor — May 2014 - Oct 2016

- Open Source projects at devpost.com/ingochris
- Toured North America to compete, mentor, and teach at 50+ Hackathons

Violin Memory
CS Intern — Oct 2013 - Jun 2014

- Built and administrated Salesforce CRM and knowledge base
- Configured Callhome for customer and internal systems through SSH
- Spearheaded data migration project from Google Cloud to SharePoint (In-House)

Professional Affiliations

Clarifai
Champion (Devangelist)

Hackster
Hardware Programming Ambassador

Spectra
Technical Director

HackingEDU
Mentorship Director

SiliconHacks
Board of Directors

Stanford University
Security Research Scholar

Technical Certificates

CCNA Cyber Ops (In-Progress)
Cisco Networks

Computer Forensics
Rochester Institute of Technology

MongoDB Python Developer
MongoDB University

Metasploit
CybraryIT

Network Security
Rochester Institute of Technology

SQL Relational Databases
Stanford University

Extracurricular Projects

AINOMALY - UNIVERSITY OF WATERLOO, CANADA
- Wrote security incident response software for the Canadian Special Forces using Computer Vision and TensorFlow artificial intelligence

AUTOMATE - UNIVERSITY OF CALIFORNIA, BERKELEY
- Reverse engineered Tinder's API by wireshark network sniffing to automatically analyze, rate, and swipe "selfies" with computer vision

CHARITYOR.ME - UNIVERSITY OF CALIFORNIA, SAN DIEGO
- Developed to-do list app that punishes overdue tasks by donating money from bank accounts to charities through Venmo API

CISCO JAILBREAK - UNIVERSITY OF CALIFORNIA, SANTA BARBARA
- Analyzed and exploited a vulnerability in Cisco's Mobility Service Engine to circumvent the system's location tracking services security feature

EVERYCHAT - UNIVERSITY OF PENNSYLVANIA
- Reverse engineered Yik Yak API to make real-time chat app powered by NodeJS and Socket.io in geolocation fences (Chrome and Comcast)

FISTPUMP - UNIVERSITY OF SOUTHERN CALIFORNIA
- Developed Unity Oculus Rift videogame utilizing Leap Motion sensors for augmented reality; Google Sketchup of 3-D Printed VR peripheral

HF TRANSLATOR - UNIVERSITY OF CALIFORNIA, BERKELEY
- Built a speech-to-speech hands-free translator using Google's Web Speech API for transcription and vocalization, wrapping Google's Translate API

INFINITYENCRYPTION - CALIFORNIA INSTITUTE OF TECHNOLOGY
- Created a new mode of PGP RSA encryption key algorithm seed entropy generation by the Synaptic Telegraphe prototype in Python (Win7 API)

INSTAREACT - UNIVERSITY OF CALIFORNIA, LOS ANGELES
- Automated Instagram with Google Cloud Vision's sentiment analysis machine learning model API

JUNI - JUNIPER NETWORKS, SUNNYVALE
- Developed a web-wide scalable AI-enhanced Text-Editor in JavaScript that allows everyone to perform research in an easy and streamlined form-factor

JUSTICEMATCH - PAYPAL, SAN JOSE
- Created an aggregated social network for easy yet effective social signal-boosts with Facebook, Instragram, and Twitter APIs

NUTRIFEYE - UNIVERSITY OF CALIFORNIA, BERKELEY
- Wrote a phone web app to track user macronutrition intake from camera with Google Cloud Computer Vision and USDA database API

REYODA - UNIVERSITY OF CALIFORNIA, LOS ANGELES
- Created MEAN Stack web app that leverages Mashape's and ReSpoke's RESTful APIs to "Yoda-fy" user messages prior to transmission

SECUREDROP - INTERNET ARCHIVE, SAN FRANCISCO
- Contributed to the open-source software platform for secure anonymous communication between journalists and whistle-blower sources

SOCIAL-ENGINEER FIREWALL (SEF) - STANFORD UNIVERSITY
- With Houndify NLP, developed the world's first firewall software that protects OSI Level 8 (end-user/human) against Black Hat Social Engineers

SUMMONING SURGE - FACEBOOK, MENLO PARK
- Designed and programmed a multi-dimensional videogame in C#, powered by the Unity 5 Game Engine

TOUCAN - "DESIGN THE FUTURE OF WIKIHOW", SAN MATEO
- Programmed an app in C and JavaScript with CloudPebble to take natural language voice dictation input, scrape wikiHow, and determine best result (Python fuzzy string matching) for smartwatch output