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 TreeCTF 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
Computer Science

Mission College
Ethical Hacking

PROFESSIONAL EXPERIENCES

Principal Consultant ingochristech   Dec 2005 - Present
- Consultant for hardware and software engineering, hacking, and training projects
- Lead on-site development workshops and speaking engagements for 2,000+ hackers
- Named Top 15 Pentesters in Nation 2017 (*MIT Cambridge2Cambridge*)
- Security penetration testing and computer forensics in U.S. and U.K.

Senior Test Engineer (Server NPI & Sustaining) Quanta   Jul 2015 - May 2017
- 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 software suites for integrated L10-L11 rack server system and network tests in BASH, C, Perl, Python, SQL, and TTL (white-box)
- Projects: *Amazon AWS, EMC VxRail, Facebook CDN, Microsoft Azure/Bing, Open Compute Project, QCT STRATOS, QuantaGrid, QuantaPlex, QxStack VMware EVO SDDC*
- Wrote Linux automation programs for server mass-production tests and firmware flash: BIOS, BMC, CMC, FRU, HDD, Intel ME, NIC, RAID, SSD, TPM

Intern Violin Memory   Oct 2013 - Jun 2014
- Built and administrated *Salesforce* CRM and company knowledge base
- Configured Callhome for customer and internal systems through Secure Shell Protocol
- Spearheaded data migration project from *Google Cloud* to *Microsoft SharePoint* server

NON-PROFIT BOARD ROLES AND AFFILIATIONS

Board Director SiliconHacks   Dec 2016 - Present
- Advise and lead flagship product concept direction and execution
- Liason with corporate partners and manage collaborations with third-party engineers

Technical Director Spectra   Dec 2015 - Jul 2017
- Built registration back-end on *Airtable, Typeform,* and *Google Drive/Sheets* APIs
- Implemented and managed customer support chat/ticket system with *Slack* API
- Mentored teams on development, growth hacking, and pitches/presentations

Technical Director HackingEDU   Oct 2015 - Dec 2016
- Facilitated engineering and outreach teams of company partners
- Led development, support, and test of *hackingedu.co* site
- Mentored teams on product design and development

Hacker Workshop Lead Consultant Make School   2017 - Present
- Teach iOS and advise hardware/software engineering projects for hacker students

Stanford University Coordinator Hackathon Hackers   2014 - 2018
- Led Stanford hackathon hackers to in-state competitions

Champion (Remote Developer Evangelist) Clarifai   2016 - 2016
- Deep learning API integration, public speaking, and technical writing

Hardware Programming Ambassador Hackster.io   2016 - 2016
- Taught hardware programming with Arduino microcontrollers

Research Scholar (Privacy and Security) Stanford University   2015 - 2016
- Contributed to privacy research talks on machine learning/natural language processing

TECHNICAL CERTIFICATES

CCNA Cyber Ops SECOPS
Cisco Networks

Metasploit
CybraryIT

Computer Forensics
Rochester Institute of Technology

Network Security
Rochester Institute of Technology

MongoDB Python Developer
MongoDB University

SQL Relational Databases
Stanford University

CHRISTOPHER NGO

SELECT SIDE PROJECTS

AINOMALY - UNIVERSITY OF WATERLOO, CANADA
- Wrote security incident response software for the Canadian Special Forces (CANSOFCOM) 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)

FEATHERIM - BLOCKCHAIN CONNECT, SILICON VALLEY
- Decentralized light-weight P2P instant messaging and video chat over nkn blockchain network protocol

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