

# 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

## Select Experiences

**Principal Consultant** ingochristech Dec 2005 - Present

- Consultant for hardware and software engineering, hacking, and security projects
- Lead on-site development workshops and speaking engagements for 2,000+ hackers
- Named Top 15 Pentesters in Nation 2017 (*MIT Cambridge2Cambridge*)
- 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/OCF 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

**CS 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

## 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** Make School 2017 - Present

**Stanford University Coordinator** Hackathon Hackers 2014 - 2018

**Champion (Remote Developer Evangelist)** Clarifai 2016 - 2016

**Hardware Programming Ambassador** Hackster.io 2016 - 2016

**Security Research Scholar** Stanford University 2015 - 2016

## Technical Certificates

**CCNA Cyber Ops SECOPS**  
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

## Personal Projects

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AINOMALY - UNIVERSITY OF WATERLOO, CANADA	<ul style="list-style-type: none"><li>• Wrote security incident response software for the Canadian Special Forces (CANSOFCOM) using Computer Vision and TensorFlow artificial intelligence</li></ul>
AUTOMATE - UNIVERSITY OF CALIFORNIA, BERKELEY	<ul style="list-style-type: none"><li>• Reverse engineered Tinder's API by wireshark network sniffing to automatically analyze, rate, and swipe "selfies" with computer vision</li></ul>
CHARITYOR.ME - UNIVERSITY OF CALIFORNIA, SAN DIEGO	<ul style="list-style-type: none"><li>• Developed to-do list app that punishes overdue tasks by donating money from bank accounts to charities through Venmo API</li></ul>
CISCO JAILBREAK - UNIVERSITY OF CALIFORNIA, SANTA BARBARA	<ul style="list-style-type: none"><li>• Analyzed and exploited a vulnerability in Cisco's Mobility Service Engine to circumvent the system's location tracking services security feature</li></ul>
EVERYCHAT - UNIVERSITY OF PENNSYLVANIA	<ul style="list-style-type: none"><li>• Reverse engineered Yik Yak API to make real-time chat app powered by NodeJS and Socket.io in geolocation fences (Chrome and Comcast)</li></ul>
FISTPUMP - UNIVERSITY OF SOUTHERN CALIFORNIA	<ul style="list-style-type: none"><li>• Developed Unity Oculus Rift videogame utilizing Leap Motion sensors for augmented reality; Google Sketchup of 3-D Printed VR peripheral</li></ul>
HF TRANSLATOR - UNIVERSITY OF CALIFORNIA, BERKELEY	<ul style="list-style-type: none"><li>• Built a speech-to-speech hands-free translator using Google's Web Speech API for transcription and vocalization, wrapping Google's Translate API</li></ul>
INFINITYENCRYPTION - CALIFORNIA INSTITUTE OF TECHNOLOGY	<ul style="list-style-type: none"><li>• Created a new mode of PGP RSA encryption key algorithm seed entropy generation by the Synaptic Telegrapher prototype in Python (Win7 API)</li></ul>
INSTAREACT - UNIVERSITY OF CALIFORNIA, LOS ANGELES	<ul style="list-style-type: none"><li>• Automated Instagram with Google Cloud Vision's sentiment analysis machine learning model API</li></ul>
JUNI - JUNIPER NETWORKS, SUNNYVALE	<ul style="list-style-type: none"><li>• Developed a web-wide scalable AI-enhanced Text-Editor in JavaScript that allows everyone to perform research in an easy and streamlined form-factor</li></ul>
JUSTICEMATCH - PAYPAL, SAN JOSE	<ul style="list-style-type: none"><li>• Created an aggregated social network for easy yet effective social signal-booster with Facebook, Instagram, and Twitter APIs</li></ul>
NUTRIFEYE - UNIVERSITY OF CALIFORNIA, BERKELEY	<ul style="list-style-type: none"><li>• Wrote a phone web app to track user macronutrition intake from camera with Google Cloud Computer Vision and USDA database API</li></ul>
REYODA - UNIVERSITY OF CALIFORNIA, LOS ANGELES	<ul style="list-style-type: none"><li>• Created MEAN Stack web app that leverages Mashape's and ReSpoke's RESTful APIs to "Yoda-fy" user messages prior to transmission</li></ul>
SECUREDROP - INTERNET ARCHIVE, SAN FRANCISCO	<ul style="list-style-type: none"><li>• Contributed to the open-source software platform for secure anonymous communication between journalists and whistle-blower sources</li></ul>
SOCIAL-ENGINEER FIREWALL (SEF) - STANFORD UNIVERSITY	<ul style="list-style-type: none"><li>• With Houndify NLP, developed the world's first firewall software that protects OSI Level 8 (end-user/human) against Black Hat Social Engineers</li></ul>
SUMMONING SURGE - FACEBOOK, MENLO PARK	<ul style="list-style-type: none"><li>• Designed and programmed a multi-dimensional videogame in C#, powered by the Unity 5 Game Engine</li></ul>
TOUCAN - "DESIGN THE FUTURE OF WIKIHOW", SAN MATEO	<ul style="list-style-type: none"><li>• 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</li></ul>