

# 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

## 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 CTF 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/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)
- 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](https://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 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

## Extracurricular 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>