# 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 (SV)**
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/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)
- 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 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

**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)

**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