

# CHRISTOPHER NGO

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## Skills

### LINUX

AWK/BASH/SED  
CIFS/SMBFS  
DHCP  
Docker  
Git  
Kickstart/PXE  
NFS  
RAID

### NETWORKING

Cisco IOS  
Firebug  
OSI and TCP/IP Models  
Routing  
Subnetting  
Wireshark

### SECURITY

ACL  
BURP Suite  
Fiddler  
IDS/IPS  
Kali Linux  
Metasploit  
Nessus  
Nexpose  
Nmap

### VIRTUALIZATION

Oracle VirtualBox  
VMware vSphere ESXi  
VMware Workstation

### WEB

Flask  
HTML/CSS  
JavaScript  
jQuery  
MEAN Stack

## Experiences

### Make School

Consultant

Mar 2017 - Current

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

### Quanta

Test Engineer (Server NPI & Sustaining Group)

Jul 2015 - May 2017

Amazon AWS | Facebook CDN | Microsoft Azure/Bing | Open Compute Project

- Defined and implemented L10-L11 server rack systems test programs in BASH, Perl, Python, SQL, and TTL
- Designed and managed lab networks (Arista/Cisco/Delta/FBOSS/Juniper/ONIE)
- Led engineer team in test strategy deployment and execution

EMC VxRail | QuantaGrid | QuantaPlex | QxStack (VMware EVO SDDC) | STRATOS

- Developed custom network, server, and storage test solutions in collaboration with second/third party engineering teams
- Wrote Linux automation shell programs for mass-production tests and firmware flash (BIOS, BMC, CMC, FRU, HDD, NIC, 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 repository migration project from Google Sites (Cloud) to SharePoint (In-House)

## Professional Affiliations

### Clarifai

Champion (Devangelist)

### Hackster

Hardware Programming Ambassador

### Spectra

Technical Director

### HackingEDU

Mentorship Director

### SiliconHacks

Infrastructure Director

### Stanford University

Security Research Scholar

## Technical Certificates

### Corporate Cybersecurity

CybraryIT

### Computer Forensics

Rochester Institute of Technology

### MongoDB Python Developer

MongoDB University

### Cryptography

CybraryIT

### Cybersecurity Fundamentals

Rochester Institute of Technology

### SQL Relational Databases

Stanford University

## Projects

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### SUMMONING SURGE - FACEBOOK, MENLO PARK

- Designed and programmed a videogame in C#, powered by the Unity 5 Game Engine

### SECUREDROP - INTERNET ARCHIVE, SAN FRANCISCO

- Improved an open-source software platform for secure anonymous communication between journalists and whistle-blower sources

### TOUCAN - "DESIGN THE FUTURE OF WIKIHOW", SAN MATEO

- Programmed an app in C and JavaScript through CloudPebble to take natural language voice dictation input, scrape wikiHow's API GET response, determine best instructions (Python fuzzy string matching), and output to Pebble smartwatch
- Winner of HackingEDU Hackathon 2015

### 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
- Winner of Silicon Valley Hackathon 2016

### INFINITYENCRYPTION - CALIFORNIA INSTITUTE OF TECHNOLOGY

- Created a new method of PGP RSA encryption key algorithm seed entropy generation with the Synaptic Telegraphe prototype using Windows API through Python, demonstrated by JavaScript front-end

### AUTOMATE - UNIVERSITY OF CALIFORNIA, BERKELEY

- Automated online dating by reverse engineering a private API through network traffic sniffing to connect computer vision and machine learning: a robot that can analyze, rate, and swipe "selfies" of Tinder users

### 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

### REYODA - UNIVERSITY OF CALIFORNIA, LOS ANGELES

- Created MEAN stack (MongoDB, ExpressJS, AngularJS, NodeJS) web app that leverages Mashape's and ReSpoke's RESTful API's to "Yoda-fy" user messages prior to transmission

### CHARITYOR.ME - UNIVERSITY OF CALIFORNIA, SAN DIEGO

- Developed run-of-the-mill To-Do Task list app... with the unique feature of punishing overdue tasks by donating money from bank accounts to charities with the Venmo API as motivation

### CISCO JAILBREAK - UNIVERSITY OF CALIFORNIA, SANTA BARBARA

- Analyzed and exploited a vulnerability in Cisco's Mobility Service Engine through Cisco's API to circumvent the system's location tracking services security function

### EVERYCHAT - UNIVERSITY OF PENNSYLVANIA

- Fused Comcast's EveryBlock API and the Yik Yak API, by reverse engineering, to create a real-time conversation app powered by NodeJS and Socket.io for agile communication with nearby users about ongoing events per device geolocation

### FIST PUMP - UNIVERSITY OF SOUTHERN CALIFORNIA

- Developed Unity Oculus Rift videogame utilizing Leap Motion sensors for augmented reality
- 3D-Printed peripheral hardware to bridge the Rift and Leap Motion using Google Sketchup