

# CHRISTOPHER NGO

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## Skills

### LINUX

BASH/KSH/ZSH  
CIFS/SMBFS  
DHCP  
DNS  
GIT  
Kickstart/PXE  
NFS  
RAID

### NETWORKING

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

### SECURITY

ACL  
BURP  
Fiddler  
IDS/IPS  
Kali  
Metasploit  
Nessus  
Nexpose  
Nmap

### VIRTUALIZATION

Oracle VirtualBox  
VMware Player  
VMware vSphere ESXi  
VMware Workstation

### WEB DEVELOPMENT

Flask  
HTML/CSS  
JavaScript  
jQuery  
MEAN Stack

## Experiences

### Quanta

Test Engineer (Server NPI & Sustaining Group)

Jul 2015 - Current  
Fremont, California

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

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

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

- Collaborated with second/third-party engineers to develop custom network, server, and storage test solutions
- 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 - Current  
North America

- Mentored teams on product design and development
- Open Source projects at [devpost.com/ingochris](https://devpost.com/ingochris)
- Toured North America to compete at 30+ Hackathons

### Violin Memory

CS Intern

Oct 2013 - Jun 2014  
Santa Clara, California

- 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)
- Updated and maintained V-6000 flash array technical documentation

## Professional Affiliations

### Clarifai

Champion (Devangelist)

### Give Hope

Developer

### HackingEDU

Mentorship Director

### Hackster

Ambassador (Hardware Instructor)

### Spectra

Technical Coordinator

### Stanford University

Security Research Scholar

## Professional Certificates

### CompTIA A+

CybraryIT CEU: 45

### CompTIA Linux+

CybraryIT CEU: 10

### CompTIA Security+

CybraryIT CEU: 15

### ISACA COBIT 5 Foundation

CybraryIT CEU: 3

### ITIL v3 Foundation

CybraryIT CEU: 3

### Microsoft SharePoint

CybraryIT CEU: 2

### MongoDB Python Developer

MongoDB University

### Six Sigma Green Belt

Upwork Global

## 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 Telegrapher 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