

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

- iOS and VR (Oculus Rift/Unity) consultant contracted through Make School
- Open Source projects at devpost.com/ingochris
- Toured North America to compete and mentor 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

Python 3 Development

Sololearn

SQL Fundamentals

Sololearn

Projects

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