CHRISTOPHER
NGO

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SKILLS

LINUX

BASH/KSH/ZSH
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 DEVELOPMENT

Flask
HTML/CSS
JavaScript
jQuery
MEAN Stack

EXPERIENCE

Quanta
Test Engineer (Server NPI & Sustaining Group)   Jul 2015 - Current

Amazon AWS | Facebook CDN | Microsoft Azure/Bing | Open Compute Project
- Defined and implemented L10-L11 server rack system test programs in BASH, Perl, Python, SQL, and TTL
- Designed and managed lab networks (Arista/Cisco/Delta/FBOSS/Juniper/ONIE)
- Engineering team lead in test strategy deployment and execution

EMC VxRail | QuantaGrid | QuantaPlex | QxStack (VMware EVO SDDC) | STRATOS
- Developed custom network, server, and storage test solutions alongside 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 - Current
- Teach iOS and VR (Oculus/Unity) for Make School
- Open Source projects at devpost.com/ingochris
- Tour North America to compete and mentor at 50+ Hackathons

Violin Memory
Support Engineering Intern   Oct 2013 - Jun 2014
- Built and administrated Salesforce CRM knowledge base
- Configured Callhome for customer/internal production systems over SSH
- Spearheaded data repo migration project from Google (Cloud) to SharePoint (In-House)

OTHER WORK

Clarifai
Champion (Devangelist)

Give Hope
Developer

HackingEDU
Mentorship Coordinator

Hackster
Ambassador (Hardware Instructor)

Spectra
Technical Coordinator

Stanford University
Security Research Scholar

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

EXTRA 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 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