

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)

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 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
- 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)

HackingEDU

Mentorship Director

Hackster

Hardware Programming Ambassador

SiliconHacks

Board of Directors

Spectra

Technical Director

Stanford University

Security Research Scholar

Technical Certificates

Cryptography

CybraryIT

Metasploit

CybraryIT

Computer Forensics

Rochester Institute of Technology

Cybersecurity Risk Management

Rochester Institute of Technology

MongoDB Python Developer

MongoDB University

SQL Relational Databases

Stanford University

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