CHRISTOPHER NGO

ingochris@gmail.com
Github: ingochris
Linkedin: ingochris
www.ingochris.tech

SKILLS

ATTACK: BURP, CAINE, Hydra, Kali, Metasploit, NESSUS, Nexpose, ZAP, CWE 25, OWASP 10

DEFENSE: ACL, COBIT, EnCase, Fiddler, FTK, IDS/IPS, NIST, Nmap, SIEM, Splunk ES

CLOUD: Amazon Web Services, Google Cloud Platform, Microsoft Azure

LINUX: AWK, BASH, CIFS/SMBFS, GIT, NFS, PXE, RAID, REGEX, ZSH

NETWORK: Cisco IOS, Firebug, OSI Model, Routing, Switching, Subnetting, Wireshark

SYSADMIN: AD, Ansible, Chef, Docker/Kubernetes, Heroku Microservices, LDAP, Puppet, Splunk, ELK

VIRTUAL: VirtualBox, VMware Player, vSphere ESXI

WEB: Flask, HTML/CSS, JavaScript, jQuery, LAMP Stack, MEAN Stack

HONORS

Top 5% of RITx Computer Forensics (21,680 Students)

Winner of Caltech Hacktech Security Challenge CTF 2020

Winner of Stanford Cybersecurity TreeCTF 2018

Winner of Stanford TreeHacks Hackathon 2018

Winner of PayPal WWC Hackathon at 2017

Winner of Silicon Valley Hackathon 2016

Winner of HackingEDU Hackathon 2015

EDUCATION

Rochester Institute of Technology (RITx)
Cybersecurity

42 University
Computer Science

Mission College
Ethical Hacking

PROFESSIONAL EXPERIENCES

Backend Engineer Pinnacle — Jan 2020 - Present
- Engineering backend node API technologies with docker containers on AWS EC2

Principal Consultant ingochristech — May 2017 - Present
- Consultant for software engineering, hacking, and training projects
- Lead on-site development workshops and speaking engagements for 2,000+ hackers
- Placed in Top 15 CTF Penetration Testers (*MIT Cambridge2Cambridge Nationals*)

Hacking Instructor (Consultant) Make School — Mar 2017 - Apr 2018
- Advised students on hardware/software hacking projects
- Led technical education talks as a speaker at tech conferences/hackathons
- Taught Introduction to Computer Science and Building Games (Flappy Bird, Pokemon) on iOS

Senior Test Engineer (Server NPI & Sustaining) Quanta — Jul 2015 - May 2017
- Designed and managed 40GbE/100GbE lab networks powered by *Arista EOS*, *Cisco IOS*, *Delta ONIE*, *Facebook/OCP FBOSS*, *Juniper Junos OS*, and *Palo Alto Networks Firewalls*
- Developed and released software suites for integrated L10-L11 rack server system and network tests in BASH, C, Perl, Python, SQL, and TTL (white-box)
- Ownership of advanced production and proof-of-concept testing projects with customers in customer-site and on-site labs
- Shipped over 2 million servers across Hyperscale Computing Projects: *Amazon AWS*, *EMC VxRail*, *Facebook CDN*, *Google Cloud Platform*, *Microsoft Azure/Bing*, *Open Compute Project*, *QCT STRATOS*, *QuantaGrid*, *QuantaPlex*, *QxStack VMware EVO SDDC*
- Wrote Linux automation programs for server mass-production QA, tests, and hardware firmware flash: BIOS, BMC, CMC, FRU, HDD, Intel ME, NIC, RAID, SSD, TPM

Support Engineering Intern Violin Memory — Oct 2013 - Jun 2014
- Administrated *Salesforce* CRM solutions and company-wide knowledge base
- Configured Callhome for customer and internal systems through Secure Shell Protocol
- Spearheaded data migration project from *Google Cloud* to *Microsoft SharePoint* servers

ADDITIONAL EXPERIENCES

Online Teaching Assistant Cybrary IT — Feb 2020 - Present
- Support cybersecurity students and create course content

Board Member (Advisory) SiliconHacks — Dec 2016 - Jul 2018
- Led flagship product concept development and execution with partner engineer teams

Stanford University Coordinator Hackathon Hackers — Sept 2014 - Jun 2018
- Led Stanford hackathon hackers to in-state competitions

Research Scholar (Privacy & Security) Stanford University — Sept 2015 - Jun 2018
- Contributed to privacy research talks on machine learning/natural language processing

Board Member (Technical) Spectra — Dec 2015 - Jul 2017
- Ownership of custom back-end projects: customer support, registration platform
- Mentored teams on development, growth hacking, and pitch/presentation decks

Board Member (Mentorship) HackingEDU — Oct 2015 - Dec 2016
- Coordinated collaboration with engineering/outreach teams of corporate partners

Champion (Remote Developer Evangelist) Clarifai — Aug 2016 - Nov 2016
- Deep learning API integration, public speaking, and technical writing

Hardware Programming Ambassador Hackster — Aug 2016 - Oct 2016
- Taught hardware programming with Arduino microcontrollers

TECHNICAL CERTIFICATES

CCNA Cyber Ops SECOPS
Cisco Networks

Computer Forensics
Rochester Institute of Technology

Algorithms: Design and Analysis
Stanford University Online

MongoDB Python Developer
MongoDB University

Network Security
Rochester Institute of Technology

SQL Relational Databases
Stanford University Online

CHRISTOPHER NGO

SELECT PROJECTS

AINOMALY - UNIVERSITY OF WATERLOO, CANADA

- Wrote security incident response software for the Canadian Special Forces (CANSOFCOM) using Computer Vision and TensorFlow artificial intelligence

AUTOMATE - UNIVERSITY OF CALIFORNIA, BERKELEY

- Reverse engineered Tinder's API by wireshark network sniffing to automatically analyze, rate, and swipe "selfies" with computer vision

CHARITYOR.ME - UNIVERSITY OF CALIFORNIA, SAN DIEGO

- Developed to-do list app that punishes overdue tasks by donating money from bank accounts to charities through Venmo API

CISCO JAILBREAK - UNIVERSITY OF CALIFORNIA, SANTA BARBARA

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

EVERYCHAT - UNIVERSITY OF PENNSYLVANIA

- Reverse engineered Yik Yak API to make real-time chat app powered by NodeJS and Socket.io in geolocation fences (Chrome and Comcast)

FEATHERIM - BLOCKCHAIN CONNECT, SILICON VALLEY

- Decentralized light-weight P2P instant messaging and video chat over nkn blockchain network protocol

FISTPUMP - UNIVERSITY OF SOUTHERN CALIFORNIA

- Developed Unity Oculus Rift videogame utilizing Leap Motion sensors for augmented reality; Google Sketchup of 3-D Printed VR peripheral

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

INFINITYENCRYPTION - CALIFORNIA INSTITUTE OF TECHNOLOGY

- Created a new mode of PGP RSA encryption key algorithm seed entropy generation by the Synaptic Telegraphe prototype in Python (Win7 API)

INSTAREACT - UNIVERSITY OF CALIFORNIA, LOS ANGELES

- Automated Instagram with Google Cloud Vision's sentiment analysis machine learning model API

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

JUSTICEMATCH - PAYPAL, SAN JOSE

- Created an aggregated social network for easy yet effective social signal-boosts with Facebook, Instragram, and Twitter APIs

NUTRIFEYE - UNIVERSITY OF CALIFORNIA, BERKELEY

- Wrote a phone web app to track user macronutrition intake from camera with Google Cloud Computer Vision and USDA database API

REYODA - UNIVERSITY OF CALIFORNIA, LOS ANGELES

- Created MEAN Stack web app that leverages Mashape's and ReSpoke's RESTful APIs to "Yoda-fy" user messages prior to transmission

SECUREDROP - INTERNET ARCHIVE, SAN FRANCISCO

- Contributed to the open-source software platform for secure anonymous communication between journalists and whistle-blower sources

SOCIAL-ENGINEER FIREWALL (SEF) - STANFORD UNIVERSITY

- With Houndify NLP, developed the world's first firewall software that protects OSI Level 8 (end-user/human) against Black Hat Social Engineers

SUMMONING SURGE - FACEBOOK, MENLO PARK

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

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

- Programmed an app in C and JavaScript with CloudPebble to take natural language voice dictation input, scrape wikiHow, and determine best result (Python fuzzy string matching) for smartwatch output