Leon Chou
http://bleepbloopsify.github.io

 bleepbloopsify
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Experience

Cisco Umbrella
Cybersecurity Research Intern

San Francisco, CA
Jun. 2018 – Sept. 2018

- **HTTP/S Datasets**: Engineered ingestor with Python and Go to process and index http banners.
- **Docker/Docker-Compose**: Used multiple
- **Web Crawler**: Architectured Promise-based Node.js web crawler to pull links off webpages indiscriminately.
- **TF-IDF**: Researched and developed word analysis algorithms of webpages to isolate relevant information from the site.

VE International
Part-time freelance

Remote to NY
Jun. 2018 – Aug. 2018

- **Single Sign-On**: Created a microservice container-based system to host a single-sign on management service.
- **Third-party sign-in**: Integrated MSFT, Google, and Canvas LMS API as third-party signins
- **Canvas LMS API**: Attached hooks to webserver events to trigger controlled API actions.

OSIRIS Lab
Cybersecurity Research Lab

Brooklyn, NY
Jan. 2017 – Present

- **CSAW CTF í8 Lead**: Managing challenges and organization for CSAW CTF.
- **Infrastructure**: Architectured and upkeep for servers in the lab, making sure services stay up.

CoHouse
Full-Stack web developer

Remote to CA
Jan. 2017 – Aug. 2017

- **Django**: Created actions and endpoints for backend framework to manage cms
- **Google Scripts**: Wrote google scripts backend to manage excel sheets for CMS

Projects

fileserver
Platform to automatically update and host personal information and files

fileserver.bleepbloopsify.io
Sept. 2018 – Present

- **Docker**: Containerized multiple nginx configurations for use in hosting and proxying the fileserver
- **Docker-Compose**: Used docker-compose and several hardlinks/mounts to actually manage and host content
- **Githooks**: Wrote a flask microservice from scratch to pull git repos whenever they are updated (like my resume)

ugo
Go decompiler plugin for IDA

Binary Analysis
Sep. 2017 – Dec. 2017

- **IDAPython**: Attached to AST generated by IDA to change the way function calls were displayed.
- **GoLang**: Researched the fundamentals of how go works (under the hood), how the calling convention, stack, etc. works.

AD-Tooling
Internal tool to interface with Attack/Defense CTFs

OSIRIS Lab
Sep. 2017 – Present

- **Flask**: Wrote a small flask microservice to host a frontend for the packet analysis backend
- **SQLAlchemy/MySQL**: Put packets into relational database form for actual analysis.
- **JSX/React**: Frontend in react to make for easy iterations and for a more modern take on interfaces.

Languages

Python: Used for quick PoCs and small interactive scripts. Experience with multithreading and webservers.

Node.JS/JavaScript: Scripting, frontend, backend, native applications.

C/C++: Familiarity with internals and code in this language. Object-oriented C++ experience.

Go: Micro API services written to start easier goroutine-based tasks.

Education

NYU Tandon School of Engineering
Expected Bachelor of Science in Computer Science; GPA: 3.6

New York, NY
Sep. 2016 – May 2020

Stuyvesant High School
High School Diploma, GPA: 3.5

New York, NY
Sep. 2012 – Jun. 2016