Leon Chou

http://bleepbloopsify.github.io

♠ bleepbloopsify☑ leon.chou@nyu.edu

2018-2019

Sep. 2017 - Present

Experience

Square Inc.New York City, NY
Mosec
Aug. 2019 – Present

- Java: Backend Engineer for cross-team java services
- Mosec-Impact: Work cross company to ensure that our low-level software requirements are met
- SPEsim: Work that allows the team to reverse engineer and attack a secure device from an attackers standpoint, but also reduces hardware costs
- Manual Command Queue: Designed, architected, and implemented a system that allows internal company researchers to
 access security information on devices

Square Inc.New York City, NY
Mosec Intern
Jun. 2019 – Aug. 2019

- Mosec-Detections: java engineer and iOS/Android developer
- **Android/iOS**: automated injection/debug management of esoteric mobile devies

Cisco UmbrellaSan Francisco, CACybersecurity Research InternJun. 2018 – Sept. 2018

- HTTP/S Datasets: Data ingestor and pipeline management of large exported datasets
- Docker/Docker-Compose: from-scratch devops work to scale and maintain custom services for my team
- Web Crawler: JS based web crawler designed to beat captchas and pull page data for suspicious sites
- TF-IDF: statistical analysis of web pages to generate relevant groupings of sites using DNS data

VE InternationalPart-time freelance
Jun. 2018 – Aug. 2018

- Single Sign-On: designed, architected, and implemented a custom oauth microservice
- Third-party sign-in: designed, architected, and implemented a self-service system to add third-party sign on systems.
- Canvas LMS API: designed, architected, and implemented a self-service hook based API on a third party software using
 plugins

OSIRIS Lab

Cybersecurity Research Lab

Brooklyn, NY

Jan. 2017 – Present

- CSAW CTF 18 Lead: Managing challenges and organization for CSAW CTF.
- Infrastructure: Architectured and upkeep for servers in the lab, making sure services stay up.

Projects

CSAW CTF Co-lead

CyberSecurity Awareness Worldwide CTF hosted by NYU Tandon.

CTF: Coordinated challenges and competitors together to create a quality CTF.

■ Infra: co-designed, architected, and implemented a devops system to run CTFs at the push of a button

ugoBinary AnalysisGo decompiler plugin for IDA PROSep. 2017 – Dec. 2017

30 decomplier plugin jor IDA FRO

- 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 OSIRIS Lab

Internal tool to interface with Attack/Defense CTFs

- 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, Ruby: Used for quick PoCs and small interactive scripts. Experience with multithreading and webservers.

Java, golang: Backend engineer working with many common Google packages

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

C/C++: large experience writing command line tools in C, exploits in both languages, and rewriting programs to be more performant

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

Stuyvesant High School

High School Diploma, GPA: 3.5

New York, NY

Sep. 2016 – May 2020

New York, NY

Sep. 2012 - Jun. 2016