Leon Chou

http://bleepbloopsify.github.io

 bleepbloopsify
 leon.chou@nyu.edu

Experience

Cisco Umbrella	San Francisco, CA
Cybersecurity Research Intern	*Jun. 2018 – Sept. 2018*

- **Sonar Rapid7**: Data ingestion and analysis of HTTP/S datasets

OSIRIS Lab	Brooklyn, NY
Cybersecurity Research Lab	*Jan. 2017 – Present*

- **CSAW CTF '18 Lead**: Hosting largest student-run CTF in the world

CoHouse	Remote to CA
Full-Stack web developer	*Jan. 2017 – Aug. 2017*

- **Django**: Backend framework in python, created actions and endpoints
- **Google Scripts**: Frontend CRM to display onboarding status

Projects

ugo	Binary Analysis
Go decompiler plugin for IDA	*Sep. 2017 – Dec. 2017*

- **IDAPython**: Attached to AST generated by IDA to change the way function calls were displayed.

AD-Tooling	OSIRIS Lab
Internal tool to interface with Attack/Defense CTFs	*Sep. 2017 – Present*

- **Flask**: Python3 Flask Middleware, allows for ease of importing custom python modules, uses global pip on the box to distribute access to webserver models for query at any time.
- **SQLAlchemy/MySQL**: MariaDB backend, JSON fields allow for easy packet parsing and querying.
- **JSX/React**: Webpack and yarn to package manage and transpile JSX, React to display the tools and provide simple front-end configuration.

notmycupofcoffee	OSIRIS Lab
CTF challenge focused on deserializing Java objects	*Sep. 2017*

- **JSP**: Java Server Pages, exemplified why storing state in frontend is a bad idea, and why debug mode is dangerous.

Skills

Tooling: GDB, IDA Pro, Binary Ninja, Wireshark, Git, Docker, Vagrant

Languages: Programming

- **Python**: Flask applications, command-line scripts, pwntools, everyday menial tasks, TCP sockets
- **JavaScript**: Web apps, TCP implementations of new web protocols, single page apps with webpack and React
- **Bash/Zsh**: Everyday terminal usage, menial QOL scripts, avoiding usage of UIs when dealing with filesystems
- **C/C++**: Minor usage for writing challenges, Node Addons, Teacher's Assistant

Education

NYU Tandon School of Engineering	New York, NY
Expected Bachelor of Science in Computer Science; GPA: 3.6	*Sep. 2016 – May 2020*

Stuyvesant High School	New York, NY
High School Diploma, GPA: 3.5	*Sep. 2012 – Jun. 2016*

Relevant Coursework

Binary Analysis	NYU
Using dynamic and static algorithms to analyze binary programs.	*Sep. 2017 – Present*

Data Structures and Algorithms in Python3	NYU
Advanced structures and sorting/search algorithms	*Sep. 2016 – Dec. 2016*

Object Oriented Programming in C++	NYU
Basic coding principles and good programming practices	*Jan. 2017 – May. 2017*

Computer Networking	NYU Shanghai
OSI model first four layers	*Jan. 2018 – May. 2018*