Leon Chou

http://bleepbloopsify.github.io

 bleepbloopsify

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Experience

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

Object Oriented Programming in C++ — Brooklyn, NY
Teaching Assistant for Professor John Sterling — *Sep. 2017 – Present*
- **Grading**: Grading homework and labs that the students hand in.
- **Teaching/Tutoring**: Teaching labs and walking students through how to have good coding practices.

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

Data Structures in Python3 — Brooklyn, NY
Teaching Assistant for Professor John Iacono — *Jan. 2017 – May 2017*
- **Grading**: Created rubrics and graded homeworks and exams.
- **Teaching**: Taught labs and concepts behind data structures and sorting algorithms.

HULEDET — Manhattan, NY
Full-Stack Web Development Intern — *May 2016 – Dec 2016*
- **PHP/Wordpress**: Full PHP backend refactor, creating actual models to interact with the database to regenerate state
- **MySQL**: Refactored backend to work with PDO, to prevent against injection attacks with prepared statements

Projects

justcats — CTFd
Plugin for CTFd to display categories as challenges — *Sep. 2017*

AD-Tooling — OSIRIS Lab
Internal Webapp to interface with Attack/Defense tools — *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
- **Python3.5/3.6/2.7**: Flask applications, command-line scripts, pwntools, everyday menial tasks, TCP sockets
- **Node.JS 6-7**: 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
- **LaTeX**: Resumes, classwork, and writeups for CTF challenges
- **C/C++**: Minor usage for writing challenges, Node Addons, Teacher's Assistant
- **HTML/CSS/SCSS**: Templating, basic styling, inlined scss with webpack

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*