Leon Chou

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EDUCATION

New York, NY Stuyvesant High School

GPA: 3.5

Sep. 2012 - May. 2016 New York, NY

NYU University

Expected Bachelor of Science in Computer Science: GPA: 3.6

Sep. 2016 - May 2020

EXPERIENCE

OSIRIS Lab Brooklyn, NY

Cybersecurity Research Lab

Jan. 2017 - Present

Object Oriented Programming in C++ Teaching Assistant for Professor Sterling

Brooklyn, NY Sep. 2017 - Present

CoHouse

Remote to CA

Full-Stack web developer

Jan. 2017 - Aug. 2017

o Django: Backend framework in python, created actions and endpoints

o Google Scripts: Frontend CRM to display onboarding status

Data Structures in Python3

Brooklyn, NY

Teaching Assistant for Professor Iacono

Jan. 2017 - May 2017 Manhattan, NY

HULEDET Full-Stack Web Development Intern

May 2016 - Dec 2016

o PHP/Wordpress: Full PHP backend refactor, creating actual models to interact with the database to easily regenerate

o MySQL: Refactor backend to work with PDO, to prevent against injection attacks with prepared statements

Projects

CTFDjustcats

Pluqin for CTFD to display categories as challenges

Sep. 2017 OSIRIS Lab

AD-Tooling

Sep. 2017 - Present

Full Internal tool to interface with other Attack/Defense tools during AD style CTFs

o Flask: Python3 Flask Middleware, allows any import of python tooling and modules to be written, 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.
- o 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 descrializing Java objects

Sep. 2017

- o JSP: Java Server Pages, exemplified why storing state in frontend is a bad idea, and why debug mode should be turned off.
- o Maven: Java's package manager, quite difficult to get to compile, but managed to pull the packages we needed and have the auto-solver in the same directory anyways.

SKILLS

• Tooling:

- GDB: Debugger for dynamic binary analysis
- o IDAPro: Hexrays analysis of binary programs for ease of code reading
- o Binary Ninja: Decompilation and visual representation of binary programs for ease of code reading
- Wireshark: pulling packets, analysis of packets in attempt to match its functionality and surpass it
- Languages: Programming
 - Python3.5/3.6/2.7: Flask applications, command-line scripts, pwntools, everyday menial tasks, TCP sockets
 - o Node.JS 6-7: Web apps, TCP implementations of new web protocols, single page apps with webpack and React
 - o Bash/Zsh: Everyday terminal usage, menial QOL scripts, avoiding usage of UIs when dealing with filesystems
 - LATEX: Resumes and writeups for CTF challenges
 - o C/C++: TA and minor usage for writing challenges, Node Addons
 - HTML/CSS/SCSS: Templating, basic styling, inlined scss with webpack

Relevant Coursework

Binary Analysis Using dynamic and static algorithms to analyze binary programs.

NYU 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

Jan. 2017 - May. 2017

Basic coding principles and good programming practices