# Leon Chou

http://bleepbloopsify.github.io

 bleepbloopsify
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## Experience

### Cisco Umbrella
San Francisco, CA
*Cybersecurity Research Intern*
*Jun. 2018 – Sept. 2018*
- **Sonar Rapid7**: Data ingestion and analysis of HTTP/S datasets
- **Lightspeed**: Industrial strength web crawler meant for identifying keywords within webpages.

### VE International
Remote to NY
*Part-time freelance*
*Jun. 2018 – Aug. 2018*
- **Single Sign-On**: Implemented the Oauth2.0 protocol using RFC 6749 and RFC 7009 for token revocation.
- **Third-party sign-in**: Interfaced with MSFT, Google, and Canvas LMS API to integrate third-party logins.
- **Canvas LMS API**: Attached hooks to webserver events to trigger controlled API actions.

### OSIRIS Lab
Brooklyn, NY
*Cybersecurity Research Lab*
*Jan. 2017 – Present*
- **CSAW CTF í8 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

### fileserver
fileserver.bleepbloopsify.io
*Platform to automatically update and host personal information and files*
*Sept. 2018 – Present*
- **Docker**: Containerized multiple nginx configurations for use in hosting and proxying the fileserver
- **Docker-Compose**: Container management system
- **Githooks**: Flask microserver to listen for githooks and update fileserver content

### 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.

## Languages

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

**Node.JS/JavaScript**: Webserver hosting/front-end UX/UI experience.

**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
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 Security Coursework

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

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