

Leon Chou, Software Engineer

✉ leon.chou@nyu.edu

☎ 917-691-0038

🔊 bleepbloopsify

🌐 bleepbloopsify

Skolem Technologies

Staff Engineer (3 year tenure) (2021-current)

Second full-time engineering hire, and then promoted to staff engineer after 1 year.

- **WalletConnect execution pipeline** - Designed, implemented, and maintained a pipeline for executing trades using the WalletConnect protocol.
- **Overseer** - Designed and implemented (from scratch) a pipeline for managing our users, organizations, and accounts. This included a permissioning system, a JS of OCaml (JSOO) / React frontend, and a separate stack within our OCaml backend for managing users.
- **Zine** - Designed, implemented, and maintained four separate pipelines for notifications, through email, Slack, Telegram, and hand-distributed pdfs.
- **Team-building** - Interviewed and hired 9 engineers, and mentored 4 interns.

Square Inc. [Mobile Security]

Software Engineer (2019-2021)

Hired as an intern, promoted to full time out of college after 3 months. Worked on a team that was responsible for securing the Square mobile app.

- **Differ (tooling)** Python library and executable to connect, apply rootkits, and fetch telemetry on Android devices. Used to detect malicious apps impersonating Square. Took a 2 developer week process and turned it into a 4 day automated process (with some babysitting).
- **Backend** Maintained our existing Java backend to reduce round trips, upgrade cryptographic primitives, and augment existing detections. Went from 4 round trips to 2 round trips for 75% of our users.
- **CI/CD** - Maintained and upgraded our existing CI/CD pipeline to support new features and reduce build times. Reduced a yearly upgrade process from 2 developer weeks to 4 hours of CI pipelining.

CSAW CTF Lead

Full-stack development (2019, 2020)

Ran two CTFs for NYU, with 1000+ participants each. Organized and ran a team of 20+ people to run the CTF.

- **Backend** Setup infrastructure for several challenges and a webserver to host the CTF. Involved hosting several containers in order to sandbox challenges, and configuration of a webserver to host the CTF.
- **Frontend** Designed and implemented a frontend for the CTF, including a scoreboard, challenge pages, and a registration page.

Cisco Umbrella [OpenDNS]

Intern (2018)

Hired as an intern for the summer. Worked as a data science engineer to identify fraud and abuse on the internet. Owned a variety of projects, including:

- **NLP scraping** - Python and Golang large scale data pipelining to scrape and analyze data from the internet. Passed data to a machine learning pipeline for classification.

Globlon

OSS - OPAM 2022

Published an opam package to expose shell-based globbing to OCaml.

AWS ARM SSM plugin

2022

Published an ARM / M1 release of the AWS SSM plugin for Terraform, in the absence of an official release.

UGO Ghidra plugin

2020

Published a Ghidra plugin for decompiling and analyzing Go binaries.

VE International

2018, 2019

Implemented a NodeJS SSO backend and a CMS for VEI, a non-profit that teaches high school students about business.

OSIRIS Security lab

2016-2020

Co-led a security research group at NYU. Organized, played, and ran CTFs, workshops, and talks.

HULEDET

2016

Acted as software engineer and CTO for HULEDET, a mailing list for birthday deals and freebies.

Fluid

2017


Implemented a predictive model for exercise using an Xbox Kinect in order to help users exercise.

Safety In Numbers

2014

Implemented a webapp to help users find safe routes to walk in NYC, using public crime data.

Tech stack

 React
 Terraform
 AWS Cloud services

 Docker
 MySQL

Languages

(this resume in L^AT_EX)

Java
Javascript / Typescript
Golang

Ocaml
Bash
Python

Education

BA Computer Science

New York University *2016-2019*
Stuyvesant H.S. *2012-2016*