

Ivan Lin

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1675 68th St, Brooklyn NY 11204

Education

Stony Brook University

MS Computer Science

BS Computer Science, Applied Mathematics and Statistics · GPA: 3.85

POSTECH (2019) · Study Abroad

Stony Brook, New York

May 2021

May 2020

Stuyvesant High School (2016) · GPA: 94.68

Experience

Whatsbusy | Remote

Full Stack Engineer Intern

May 2020 – August 2020

- Migrated payment system to a multi-stage subscription model with Plaid and Stripe integrations to handle hundreds of thousands of dollars in payments from our partners every month
- Designed data models and APIs to convert raw sales and demographic data from partners to useful analytics
- Researched and prototyped apps to onboard thousands of client businesses and automatically manage their online Facebook and Google marketing campaigns

Sweetist Co | New York, NY

Full Stack Software Developer Intern

June 2017 – August 2017

- Developed tool to graphically query, visualize, and compare ranges of shipment data
- Collaborated with the marketing team to enact sitewide color, design, content, and formatting changes

Network for Teaching Entrepreneurship | New York, NY

Engineering Mentor (July 2016 - August 2016) · **Software Engineer** (July 2015 – August 2015)

- Lead development of a Cordova-based mobile Android app for users to share events based in New York City

Academic Activities

Stony Brook University | Stony Brook, NY

Student Researcher

July 2019 – Present

- Modified Firefox browser's DNS-over-HTTPS feature to distribute lookup load between multiple resolvers
- Hoang, P. H., & Lin I. & Ghavamnia S., & Polychronakis, M., 2020, 'K-resolver: Towards Decentralizing Encrypted DNS Resolution', Workshop paper presented at NDSS MADWeb, San Diego
- Created a crawler to experimentally find optimal in-the-wild DNS TTL values

Teaching Assistant: Computer Networks

August 2018 – December 2018

Stony Brook Solar Racing Team | Stony Brook, NY

Datalogging Lead (2017 - 2020) · **Vice President** (2018 - 2020) · **Secretary** (2017 - 2018)

- Built the boat telemetry system and consolidated the data through a Raspberry Pi for display

Projects

DirectWriter | C

github.com/ivlin/DirectWriter

C command line utility that allows for quick renaming of a large amount of files. Displays a directory as editable text in-terminal so that changes to filenames will be reflected in the real directory structure.

FDNS | C

github.com/ivlin/fdns

Modified original fdns DNS-over-HTTPS proxy server to distribute DNS lookup loads between multiple resolvers.

LangAnnotator | HTML, CSS, React.js

ivlin.github.io/LangAnnotator

Tool for writing and annotating notes, aimed at those learning a foreign language. Styled and displayed with React.

FrameFinder | HTML, CSS, Javascript, Python

framefinder.herokuapp.com

Find a specific frame in a Youtube video by drawing it. Post a picture and FrameFinder will go through a Youtube video looking for similar looking frames. Backend in Flask and Redis Queue using image processing libraries.

Skills and Coursework

Proficient with: HTML, CSS, Java, JavaScript, C, Ruby on Rails, Python, Django, SQL (Postgres), Go

Prior experience with: Tensorflow, MongoDB, NodeJS, ReactJS, OCaml, C++

Graduate Coursework: Machine Learning, Systems Security, Algorithms, Networks, Distributed Systems