

# Ivan Lin

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## 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](https://github.com/ivlin/DirectWriter)

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](https://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](https://ivlin.github.io/LangAnnotator)

Tool for writing and annotating notes, aimed at those learning a foreign language.

### **FrameFinder** | HTML, CSS, Javascript, Python

[framefinder.herokuapp.com](https://framefinder.herokuapp.com)

Find a specific frame in a Youtube video by drawing it. Post a picture a drawing of a scene and FrameFinder will go through a Youtube video looking for similar looking frames.

## Skills and Coursework

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

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

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