Ivan Lin

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Education

Stony Brook University   Stony Brook, New York
   MS Computer Science   May 2021
   BS Computer Science, Applied Mathematics and Statistics · GPA: 3.85   May 2020

POSTECH (2019) · Study Abroad   **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 integration
- Designed and wrote app to onboard client businesses and automatically manage their online advertising

Sweetist Co | New York, NY
Full Stack Software Developer Intern   June 2017 – August 2017
- Developed tool for querying and graphically visualization arbitrary sets of shipment data
- Collaborated with the marketing team to enact sitewide design changes
- Wrote and corrected dozens of Rails tests for new features leading up to update

Network for Teaching Entrepreneurship | New York, NY
Engineering Mentor (July 2016 - August 2016) · Software Engineer (July 2015 - August 2015)
- Lead development of a mobile Android application using HTML, CSS, and Javascript with Apache Cordova

Academic Activities

Stony Brook University | Stony Brook, NY
Student Researcher   May 2018 – August 2018, 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
Vice President (2018 - 2020) · Datalogging Lead (2017 - 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
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.

LangAnnotator | HTML, CSS, Javascript, React.js   ivlin.github.io/LangAnnotator
Tool for writing and annotating notes, aimed at those learning a foreign language.

MealzTM | HTML, CSS, Javascript, Python, Postgres   mealz-tm.herokuapp.com
Website for groups of people to track payments and divide bills between themselves.

FrameFinder | HTML, CSS, Javascript, Python   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, PostgreSQL
Prior experience with: Tensorflow, MongoDB, NodeJS, ReactJS, OCaml, C++
Graduate Coursework: Machine Learning, Systems Security, Algorithms, Networks, Distributed Systems