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: 3.84   May 2020
Stuyvesant High School · GPA: 94.68   New York, New York | May 2016

Experience

Sweetist Co | New York, NY
Full Stack Software Developer Intern   June 2017 – August 2017
- Created a system for querying, comparing, and displaying large blocks of shipment data
- Collaborated with the marketing team to enact website design changes in HTML and CSS
- Wrote unit tests, fixed bugs, and implemented features using Javascript and Ruby on Rails
- Developed a delivery tracking application that communicated with the online store

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

Activities

Stony Brook University | Stony Brook, NY
Student Researcher   May 2018 – August 2018, July 2019 - Present
- Modified Firefox's DNS-over-HTTPS to distribute lookup load between multiple resolvers
- Hoang, P. H., & Lin I. & Ghavamnia S., & Polychronakis, M., 2020, 'K-resolver: Towards Decentralizing Encrypted DNS Resolution', Paper presented at NDSS MADWeb, San Diego

Teaching Assistant: Computer Networks   August 2018 – December 2018
- Ran Python tutorial sessions, designed and graded homeworks, and answered student questions

Stony Brook Solar Racing Team | Stony Brook, NY
Vice President (2018 - Present) · Datalogging Lead (2017 - 2020) · Secretary (2017 - 2018)
- Developed a telemetry system that consolidated onboard sensor information to a Raspberry Pi
- Lead a team in the development of a web application to display the data on the boat's dashboard

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

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

FrameFinder | Web, 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, PostgreSQL

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

Coursework: Graphics, Algorithms, Networks, Programming Languages, Machine Learning, Operating Systems, Offensive Security, Computational Geometry, Theory of Computation, Software Development, Systems Security