David S. Li

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Education

- **Stony Brook University, State University of New York** — Stony Brook, NY
  Bachelor of Science in Computer Science — *December 2019*
  - University Scholars Honors, Presidential Scholarship Recipient

Experience

- **Stony Brook University** — Stony Brook, NY
  Undergraduate Research Assistant — *September 2018 - present*
  - Currently working on a C data structure that utilizes filters to optimize data searches and queries, under the supervision of a data structures and algorithms lab group for computational biology.

- **Stony Brook University** — Stony Brook, NY
  Undergraduate Teaching Assistant — *January 2017 - December 2017*
  - Conducted a laboratory/recitation session in a 30 student classroom section, held open office hours, and monitored an open discussion forum for introductory Computer Science courses in Java, where I assisted students by answering questions that pertained to their coursework
  - Met with other TA's once a week to discuss upcoming course-related events, including review sessions for upcoming exams and designing material for upcoming recitations
  - Courses Assisted: Introduction to Procedural and Object Oriented Programing (Spring 2017 under Mr. Ahmad Esmaili and Summer 2017 under Dr. Paul Fodor) and Data Structures (Fall 2017 under Mr. Ahmad Esmaili)

Programming Skills

- **Languages**: Python, JavaScript, C, SQL, Java, MIPS Assembly, OCAML
- **Operating Systems**: Linux, Windows
- **Tools**: Atom, Sublime, Vim, NetBeans, IntelliJ, PyCharm
- **Other**: HTML, LaTeX

Projects

- **QuickBiz**: Application designed to help prospective entrepreneurs built with TypeScript and Node.js on the front end, and Python, Google Cloud, and AWS for market research.
- **MindMusic**: A web app designed to schedule stress-relieving music study breaks. Used HTML/CSS/JS on the front end; Flask, Google Calendar, and Spotify APIs on the back end. Winner of Most Innovative Prize, HackHealth 2018.
- **Stock Analysis**: Developed in R to predict future stock log returns from Microsoft and Amazon. Created a linear model and one-step prediction using stock data from the previous year.
- **Course Site Generator**: JavaFX application for assisting instructors in creating easy-to-use course websites. JavaScript and CSS/HTML front end with JSON objects utilized to store data.
- **Mental Health Web App**: Web application that gives users feedback and professional help that they may need based off their input. Used JS and the Google Maps API.