

# Kenny Hu

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## EDUCATION

### Stony Brook University

2017-2021

Computer Science, Bachelor of Science B.S.

GPA: 3.61

Applied Mathematics & Statistics, Bachelor of Science B.S.

System Fundamentals • Analysis of Algorithms • Computer Security • Computer Networks • Calculus • Operations Research

## TECHNICAL SKILLS

Programming Languages: C • CSS • HTML • Java • JavaScript • MIPS Assembly • Python  
Library/Frameworks: Bootstrap • React • Redux • NumPy • pandas  
Tools: Android Studio • Git • GitHub • IntelliJ • PyCharm • Visual Studio Code  
Finance: Options Trading • Securities Pricing • Technical Analysis  
Languages: Cantonese (native) • Mandarin (fluent)

## PROJECTS

### Senior Project: Congressional Districting Analysis Web App – written in JavaScript/HTML/CSS/Java/Python

- Written a reactive GUI that contains an interactive map with the options for users to see district/precinct boundaries within a state and a multistate sidebar for users to input filtering parameters and analyze districting information.
- Drew class, sequence and activity diagrams that act as blueprints for building the application.
- Used the university HPC cluster and MGGG algorithm to generate hundreds of thousands of districtings.
- Optimized the objective function to return a small set of optimal districtings based on user input parameters.
- Experienced in UI design, performance analysis, client/server interaction, and graph algorithms.

### Technical Analysis Web App – written in Python

<https://ta-py.herokuapp.com/>

- Identified support and resistance levels for a given ticker through analyzing historical data.
- Calculated trend lines using statistics and evaluated whether they are respected by past price action.
- Provided a technical analysis using a combination of chart trends, patterns, indicators and key price levels.
- Practiced docstring documentation and familiarized myself with popular data analysis libraries.

## EXPERIENCE

### Data Structures Teaching Assistant at Stony Brook University

January 2020 – May 2020

- Collaborated with faculty members to deliver a comprehensive understanding of data structures to students.
- Promoted an interactive and personalized learning experience for students during office hours and recitations.
- Helped design object-oriented programming problems and projects that utilize a variety of data structures and algorithms to test students' understanding of the course material.

### Brooklyn Navy Yard Development Corporation Tech Intern

June 2019 – August 2019, June 2018 – August 2018

- Wrote scripts to automate basic tasks.
- Worked with JAMF to supervise the corporation's iOS devices.
- Managed the corporation's users in various systems as system administrator.
- Worked as a help desk technician and resolved hardware, software, and connectivity issues.
- Created a live network map detailing network connection between buildings, status and location of each device.