

# Sohail Ali

NYC (917) 455-5679 [soali3107@gmail.com](mailto:soali3107@gmail.com) [PORTFOLIO](#) [GITHUB](#) [LINKEDIN](#)

**SKILLS** Python, React, Redux, Ruby, Rails, Javascript, HTML, CSS, SQL, PostgreSQL, SQLite3, AWS, Java, Jupyter

## PROJECTS

**FlexIt** (Rails, ReactJS)

[live](#) | [github](#)

*Single-page clone of Netflix that allows users to watch videos and add videos to their lists.*

- Secured user login by using BCrypt and react-router components to keep track of session cookies, allow login to persist across a session, and protect user-generated data.
- Hosted pictures and videos in the cloud using AWS and have Active Storage accessible on the website, allowing easier management of the data and allowing it to scale when more videos are added.
- Integrated Redux with HTML5 media web components to create customized media playback for users.

**Chess** (Javascript)

[live](#) | [github](#)

*Online 2-Player Chess application.*

- Registered an *onclick* event listener which is triggered by selection of any piece or board space and displays possible moves or completes a move respectively.
- Construct hierarchy of pieces to create custom movement logic, allowing chess pieces to move as they would on a real chessboard.
- Built a custom function to iteratively check through the appropriate pieces to check if playable moves result in the king piece being in check or checkmate.

## EXPERIENCE

**SAT Math Instructor**

*Angel Advantage Center*  
2018

July 2018 - Aug

- Developed homework, curriculum, and quizzes based on extensive research on SAT structure and content.
- Managed team of teaching assistants to follow grading guidelines.

**Peer Mentor / Tutor**

*Stony Brook University*

- Rapidly developed fundamental skills needed to understand intimately the materials being taught.
- Coached undergraduates in various subjects including single variable calculus, multivariable calculus, linear algebra, and introductory physics.
- Elevated one student's comprehension from 20% the night before the exam to 80% the day of for Calculus final.

**Math Team**

- AIME Qualifier ('15): scored in the top 5% nationwide at the American Mathematics Competition (AMC), qualifying for the American Invitational Mathematics Examination.
- Special Junior Division NYCIML ('14): Third Place. New York City math competition among specialized high schools.
- New York Math League ('13, '14): honorable mention. Scored a perfect score on at least one contest in the years listed.

## ACHIEVEMENTS

- MITx 6.00.1x: Introduction to Computer Science and Programming Using Python (2020)
- Stony Brook Presidential Scholarship (2015-2018)

## EDUCATION

**Full Stack Web Development** - App Academy | Fall 2019

**BS Education** - Stony Brook University | 2015 - 2019

*Applied Mathematics/Statistics and Information Systems Major*

*Courses: Data Science(Using Jupyter and Python), Introduction to Python, Introduction to Java, Logic, Foundations of Computer Science*