

# SAJED NAHIAN

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## EDUCATION

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**Stony Brook University** - Bachelors of Computer Science

Expected June 2022

Coursework: Data Structures, Discrete Mathematics, Programming Abstractions, Systems Fundamentals, Analysis of Algorithms

**Stuyvesant High School** - Advanced Regents Diploma

Coursework: AP Computer Science, Systems Level Programming, Software Development

## WORK EXPERIENCE

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**SciSquare** - [scisquare.com](https://scisquare.com)

June 2019 - Present

*Full Stack Web Developer*

- Developed RESTful API backend for lab management software using Node.js, MongoDB, and Express. Implemented CRUD features, live chat and live notification (using web sockets) as well as scalable file storage using AWS.
- Converted HTML/CSS from front end developers into modular and organized React components.
- Connected React components to RESTful API backend using Redux and Axios.
- Brought app into production using MongoDB Atlas, Heroku and AWS.

## PROJECTS

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**TechTube** - [bit.ly/TechTubeApp](https://bit.ly/TechTubeApp)

- Developed a blazing fast YouTube clone using MongoDB, Express, React, AWS and Node.
- Created RESTful API backend responsible for creating accounts, uploading videos (and storing them scalably in the cloud), leaving comments, streaming video, as well as on the fly video thumbnail generation.
- Created beautiful custom frontend using SCSS, Flexbox and CSS Grid in React and wired it to backend through Redux and Axios.
- Created a custom video recommendation system using video tags and titles and implemented fuzzy search algorithm.

**CodeConference** - [bit.ly/CodeConferenceApp](https://bit.ly/CodeConferenceApp)

- Developed a real-time collaboration tool for coding (similar to Google Docs).
- Built a code execution engine in Java responsible for running code in different languages and returning output.
- Implemented RESTful API backend for creating files, adding collaborators and interfacing with the code execution engine using Node.js, MongoDB, and Express.
- Implemented concurrent multi-user file editing through the use of web sockets.
- Created React frontend using Bootstrap and wired it to backend through Redux and Axios.

**TwitchCompiler** - [bit.ly/TwitchCompiler](https://bit.ly/TwitchCompiler)

- Developed a desktop application that allows users to take multiple clips from popular streaming service Twitch.tv to create a single compilation video using C# and WPF.
- Implemented video editing features including resizing and combining video clips, as well as adding intros/outros using an FFmpeg wrapper in C#.
- Marketed software to various YouTubers. Currently in use by: Synapse, Fl1pz, SoloMiD, MrMax.

## SKILLS

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<b>Languages</b>	JavaScript, TypeScript, Java, Python, C#, MongoDB, HTML, CSS (Flexbox and CSS Grid)
<b>Frameworks</b>	Node.js, Express, Mongoose, React, Redux, Unity, WPF, SASS, Bootstrap