

# Matthew Sze

Cell: (848)-667-5098 · Email: [msze400@gmail.com](mailto:msze400@gmail.com) · LinkedIn: [linkedin.com/in/mtsze](https://www.linkedin.com/in/mtsze) · Github: [github.com/msze400](https://github.com/msze400)  
Website: [mattsze.com](https://mattsze.com)

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## TECHNICAL SKILLS

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- **Proficient:** in Node, JavaScript, HTML5, CSS3, Git, Express, MATLAB, VBA
- **Familiar:** Java, Python, C

## PROJECTS

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### Learn It - [Live Demo](#) | [Github Repo](#)

- Designed a crowd sourced live streaming platform that allows students to learn from and contribute to the best teachers on the web.
- Tools used: HTML5, CSS3, JS, PostgreSQL, Express, React, Node, WebRTC, Materialize, Socket.io, Amazon S3 API, Stripe API

### Financial Freedom Dashboard - [Live Demo](#) | [Github Repo](#)

- Created a data visualization web app that allows users to track their ability to reach financial independence
- Tools Used: HTML5, CSS3, JS, Express, React, Node, Redux, Materialize, Material-UI, and React-Vis

### Gimmick Shop - [Live Demo](#) | [Github Repo](#)

- Developed an ecommerce website allowing users to buy and checkout gimmick items.
- Designed RESTful backend server enabling items to be stored in a checkout persistently in an online database
- Tools used: using HTML5, CSS3, JS, PostgreSQL, Express, React, Node, Material UI, and Redux.

## WORK EXPERIENCE

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### App Development/Process Engineer

06/2019-Present

*Lummus Technology*, Bloomfield, NJ

- Developed Basic Engineering Packages for grassroots and revamp petrochemical projects, in olefin conversion technology (metathesis of butene and ethylene), ethylbenzene/styrene monomer, and paraxylene technologies.
- Performed comprehensive process calculations, developed heat and material balances, and developed detailed process flow diagrams and piping and instrumentation diagrams
- Participated in kickoff and design review meetings attended by clients
- Produced screencast tutorials for new training engineers to develop skills necessary to code various unit operations that are used to simulate various petrochemical technologies
- Orchestrated the usage and training of Azure Devops for the App Development Team
- Created a low code solution Application Library using Microsoft PowerApps, that successfully display Lummus' in-house applications.

### MATLAB Teaching Assistant

09/2017-06/2018

*Rutgers Learning Center*, Rutgers University, Piscataway, NJ

- Assisted teaching recitation of basic MATLAB coding principles to 35 first year undergraduates
- Created pro-bono test review sessions for first year undergraduates

## EDUCATION

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**Rutgers University, School of Engineering**, New Brunswick, NJ

*Major: Chemical Engineering Class of 2018*

**Grade Point Average (4.0 scaling): 3.72**

**Graduated: Summa Cum Laude**

**Fullstack Academy, Software Engineering Part-Time Immersive** New York, NY

- 34-Week Full Stack JavaScript web development immersive