

Matthew Sze

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Currently Holds Secret Clearance

PROFESSIONAL EXPERIENCE

Software Engineer

09/2022-Present

MIT Lincoln Lab, Lexington, MA

- UI/UX lead for a risk management system assessing mission impact against space and terrestrial threats for US Space Command's critical infrastructure.
- Demoed application to government sponsor resulting in **\$1.6M** in funding for our research team.
- Risk management application won a lab-wide competition for moonshot funding of **\$1M**, to extend the application to other areas for the Department of Defense.
- Created UI design mockups via Sketch and led UX design meetings with Department of Defense sponsors
- Led UI development for a rapid-pace project for the United States European Command (USEUCOM) in response to the war in Ukraine.
- The application was presented to the highest-ranking member of the US military, Chairman of the Joint Chief of Staff, General Mark Milley..
- Ukraine support team received Team Award through the MIT Rewards and Recognition program for significant contribution and achievement.

Technology Used

- React, Svelte, Docker, Jenkins, Sketch, Open Layers, ApexCharts, Svelvet, PostgreSQL, Postgrest, Python, FastAPI, Dash, Maven, ExtJS, Carbon Design System,

Front End Engineer

08/2021-09/2022

Colgate Palmolive, Piscataway, NJ

- Responsible for leading front-end redesign effort for business-to-business (B2B) Vet portal eCommerce site.
- Assisted Colgate's UX team in creating mockups that would help be implemented for redesign.
- Led efforts in helping build an application roadmap concerning upgrading redesign and legacy code refactoring.
- Implemented enhancements on Colgate's direct-to-customer eCommerce Pet Parent site using Typescript and Angular.

Technology Used

- Angular, React, Typescript, Figma, Kubernetes, SAP Hybris

App Development/Process Engineer

06/2019-08/2021

Lummus Technology, Bloomfield, NJ

- Developed an IT tool rating system that allowed users to rate tools of interest for the engineering team. Created with Javascript, React, PostgreSQL, Express, React, Node,
- Created a low code solution Application Library using Microsoft PowerApps, that successfully displays Lummus' in-house applications.
- Orchestrated the usage and training of Azure DevOps for the App Development Team

Technology Used

- React, PostgreSQL, Javascript, NodeJS, Express, Microsoft PowerApps

PROJECTS

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 e-commerce website allowing users to buy and check out gimmick items.
- Designed a 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.

AWARDS AND NOTABLE ACHIEVEMENTS

- MIT Lincoln Lab Team Award – United States European Command (USEUCOM)

EDUCATION

Rutgers University, School of Engineering, New Brunswick, NJ

Major: Chemical Engineering Class of 2018

Graduated: Summa Cum Laude

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

- 34-Week Full Stack JavaScript web development immersive