

# Nathaniel Tseng

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

California / Bay Area

**SKILLS** React.js, JavaScript (Node.js), Python, Redux, SQL, SQLAlchemy, Flask, Git, HTML5, CSS3, C#, Docker

## PROJECTS

### Remember the Milk Clone (Express / Sequelize / PostgreSQL / React / Redux / CSS3)

[Live Site](#) | [GitHub](#)

*Dynamic single-page app that allows users to create, read, update, and delete tasks and lists*

- Supported additional text notes on tasks and due date categorization to allow users to better prioritize tasks
- Built dynamic task search using Redux state to allow users to find tasks from any list at any time
- Styled application using non-package CSS3 attributes to maximize browser compatibility

### Teachables (Flask / SQLAlchemy / React / Redux / CSS3 / Docker / AWS S3)

[Live Site](#) | [GitHub](#)

*Website that allows user to create tutorials for their various interests, and comment on them*

- Designed PostgreSQL database to allow tutorials to include any number of steps
- Utilized AWS S3 to improve scalability of image uploads allowing users to add images to project headings and all sections

### Prophets of the Labyrinth (Discord.js)

[GitHub](#)

*Multiplayer rogue-like game about acting on predictions played in Discord*

- Utilized object-oriented programming (OOP) patterns including Strategy Pattern, Observer Pattern, and Factory Pattern to improve codebase maintainability and efficiency
- Optimized deployment (DevOps) using GitHub Actions to automate wiki updates and syncing sponsors credits

### Evernote Clone (Express / Sequelize / PostgreSQL / React / Redux / CSS3 / Tiptap)

[Live Site](#) | [GitHub](#)

*Notes app that allows users to create notes and organize them into notebooks*

- Imported rich text editor library Tiptap to allow users to save detailed notes with visual styling
- Designed React components to provide immediate feedback through modals and validation error messages

### Extension Hunt (Express / Sequelize / PostgreSQL / Pug / CSS3)

[Live Site](#) | [GitHub](#)

*Website that allows users to create pages for VS Code extensions, comment on, and upvote extensions*

- Implemented DOM manipulation authentication to allow login from any page of the application
- Engineered many-to-many db relationship for extension categories allowing extensions to be qualify for multiple categories

### DirectoryBot (Discord.js)

[GitHub](#)

*Community management bot that allowed users to reference friends' game usernames across different games*

- Maintained service from release to sunset (2 years of deployment) through major library updates utilizing latest features, resolving vulnerabilities, and fixing bugs
- Protected user privacy by encrypting sensitive data in storage
- Implemented locale-sensitive localization framework to automatically respond in user's set language

## EXPERIENCE

### Academic Tutor

*Personal Employment, September 2016 - September 2021*

- Applied UX principles of agency, mnemonics, and pacing in 1:1 math/science tutoring resulting in 10%+ grade improvements
- Emphasized understanding over test taking strategy to promote enjoyment of learning
- Created practical projects to ground understanding in reality, inspiring confidence in students

### Board Game Consultant

*Coalition Game Studios, September 2017 to February 2019*

- Organized playtests for clients including *Fantasy Ranch* and *Pedigree: The Animal Breeding Boardgame*, with 100% on-time case completion record
- Collated rules copy editing, A/B split testing, and survey analysis into actionable feedback reports

## EDUCATION

**App Academy** - Immersive software development course with focus on full stack web development (Winter 2021)

**Santa Clara University** - BS - Mechanical Engineering (Spring 2016)