

# Matthew Pierik

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Sterling Heights, MI

Portfolio

[Linkedin](#)

[GitHub](#)

## Skills

Javascript | React / Redux | HTML | CSS | Jinja | Pug

Python | Flask | SQLAlchemy | Alembic | SQL | Express | Sequelize | PostgreSQL | Docker | Git | Heroku

## Projects

### Shreddit

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

JavaScript | React / Redux | CSS3 | Python | Flask | SQLAlchemy | Alembic | PostgreSQL

*Shreddit is a clone of Reddit, with a ski/snowboard theme where users can share their shredding experiences.*

- Incorporated a recursive React component, enabling users to comment on comments.
- Utilized dynamic CRD for votes, where the operations are dependent on both the current state and the future state of votes.
- Harnessed the unidirectional state management of Redux to simplify React components and directly manage data for form inputs and form submissions.

### Robinsock

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

JavaScript | React / Redux | CSS3 | Python | Flask | SQLAlchemy | Alembic | PostgreSQL

*Robinsock is a clone of Robinhood, allowing users to simulate managing a portfolio.*

- Implemented react-chartjs-2 package to display stock prices and portfolio prices, on a minimalistic graph, over several time ranges, allowing user-friendly interaction with large amounts of data.
- Managed git repository in a group setting using branch protection rules and pull requests to safely update the main branch.
- Incorporated validations for trading stocks to ensure proper updating of database and portfolio values.

### Deals on Wheels

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

JavaScript | React / Redux | CSS3 | Sequelize | PostgreSQL

*Deals on Wheels is an Airbnb clone with a focus on renting rides instead of homes.*

- Designed validations to check for overlapping booking dates of rides .
- Leveraged redux state changes to dynamically update the DOM without refreshing the page.

## Experience

**Design Engineer** | April 2018 - September 2021

Ideal Technology Corporation

- Designed and detailed 50+ custom secondary automotive machines (e.g. tab benders, nut runners, welders) and fixtures valuing over \$2million dollars
- Involved in every step of custom engineering solutions, including: concept, design, assembly, and testing to solve the manufacturing needs of dozens of customers across Michigan.
- Responsible for ordering all raw materials and parts, and ensuring proper construction of said machines and fixtures.

## Education

**App Academy** | Spring 2022 | Online

Immersive software development course with focus on full stack web development

**University of Michigan** | Winter 2017 | Ann Arbor, MI

BS Aerospace Engineering