

MATTHEW LI

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[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

SKILLS

React, Redux, Javascript, HTML, CSS, SQL, Python, Express.js, Flask SQLAlchemy, SQLite3, Node.js, PostgreSQL, TDD, git

PROJECTS

Pinature - Fullstack Pinterest Clone

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

Pinature is a full stack clone of Pinterest built with Python and Javascript

- Fully implemented pins feature by creating a extensive **REST API** using **Flask SQLAlchemy** and manipulating normalized groups state using **React Redux** that allows users to create, edit, and delete customizable groups and browse user authorized data
- Created production ready **join tables** and **associations** for Boards feature with Pins and users in Flask SQLAlchemy, allowing for cost and time efficient requests to the backend **PostgreSQL** database for faster processing time
- Incorporated **AWS S3 Bucket** by quickly adopting the **Boto3 module** in **Python** for users to upload valid image files in a user friendly interface, greatly improving the quality of user experience when creating a Pin.
- Added comments feature for individual Pins by creating comment **route handlers**, and fetching the response by utilizing **useEffect** hook to make fetch requests in **React.js** so users can comment on pins and immediately view the posted message.

WeebUp - Full Stack Meetup Clone

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

Weebup is a Meetup inspired clone that allows users to create groups and organize events for their social need

- Created a robust and extensive **REST API** using **Express.js** and **PostgreSQL** database to create detailed **route handlers** and proper backend **error handling** for authorized users to interact with the application using groups and events features.
- Utilized **React.js** and **Redux** frontend framework by creating a **normalized state** to effectively retrieve data and dispatch requests from the backend so users can readily read, create, edit, and delete groups and events.
- Implemented **Google Maps API** by using react-google-maps/api npm package and Maps Javascript API to geographically display event venue locations

Utopia - Full Stack OKCupid Clone

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

Creative full stack clone of OKCupid written in Python and Javascript, with a Postgres Database

- Successfully worked in a team environment to fully develop a creative clone of OKCupid, using skills in **Python** and **React.js**
- Practiced complex **debugging** and **refactoring** through **pair programming** with other software engineers to improve efficiency and dynamic functionality on all features, resulting in more robust code and workflow.

EXPERIENCE

Mechanical Design Engineer

Winbo USA

May 2019 - Feb 2022

- Engineered and produced aftermarket automotive parts from the ground up based on current market trends and ongoing needs of the specialized field through extensive research and experience, satisfying customer demand and needs.
- Conceptualized, designed, and revised new and on-going products using Solidworks and Siemens NX Unigraphics to lower engineering testing costs while rapidly releasing approved models to production each week
- Conducted thorough quality and functionality tests for each physical prototype by fitting parts onto vehicles, running through many load simulations, taking detailed measurements, and testing for edge cases to mitigate risk of failure.

Mechanical Engineer

Amphastar Pharmaceuticals

Nov 2018 - Feb 2019

- Maintained and improved packaging production line for large scale pharmaceuticals with FDA compliance
- Overlooked industrial packaging machinery and mitigated disruptions in production flow by monitoring machine status and output rate and increased efficiency by 20%.

EDUCATION

Software Engineering - App Academy | December 2022

B.S. in Mechanical Engineering - University of California, Riverside | 2014 - 2018