MENGXUAN LIANG

FULL STACK SOFTWARE ENGINEER

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TECHNICAL SKILLS

React.js, React Router, Redux, JavaScript, HTML, CSS, Python, Flask, Node.js, Express, SQL, SQLite3, PostgreSQL, Websocket, Git, AWS

PROJECTS

PAWBLR   [Live](#) | [Github](#)

A social platform for pet lovers where users can post, comment, follow, like and engage in real-time interactions.

- **Real-time features:** Users can interact with posts through comments, likes, and reblogs in real-time, providing a dynamic social experience.
- **User Interactions**: Implemented a following system that allows users to follow and interact with other users; Search feature allows users to find posts and users quickly, improving content discoverability.
- **Media Storage**: Integrated AWS S3 to store and manage user-uploaded media, such as profile pictures and post images.
- **Secure Authentication**: Integrated Flask and React Router to create a secure and user-friendly authentication flow, with password encryption using Flask-Bcrypt.

SOLOCAMP   [Live](#) | [Github](#)

A Bandcamp-inspired e-commerce web application empowering artists to showcase, stream, and sell their music.

- **Custom Music Streaming**: Implemented a feature that allows users to stream demo tracks directly from the platform, providing a seamless music listening experience.
- **Two-Sided Platform**: SoloCamp allows artists to create and manage albums, upload tracks, and showcase their work, while listeners can browse albums, add them in wishlist and collection for future purchase.
- **Album Creation and Track Upload**: Users can create new albums, upload demo tracks, and provide album details such as cover art and tracklists using Cloudinary for media storage and management.
- **Database Management**: Structured backend data management with PostgreSQL, enabling efficient handling of user data, posts, and reviews.

BarkBnB   [Live](#) | [Github](#)

A pet boarding platform where users can find and book pet boarding services.

- **Full-Stack Development:** Built a RESTful API using Express and PostgreSQL to manage spot listings, user data, and booking information.
- **Efficient State Management:** Employed Redux to manage global state, ensuring seamless interaction across various components.
- **Responsive Design:** Created a mobile-friendly interface with React, ensuring a smooth user experience on all devices.
- **Cloud Integration**: Deployed on Render, utilizing cloud services for efficient storage and scalability, improving load times and responsiveness.

WORK EXPERIENCE

Preschool Director   **Feb 2022 – June 2022**

Liberty Kids, Boston, MA

- **Utilized GoDaddy's app for financial management**, including budgeting and expense tracking, to maintain accurate and up-to-date weekly budgets, enhancing the financial oversight and planning for the preschool.
- **Leveraged social media platforms and scheduling tools** to broadcast school events and announcements, increasing community engagement and improving the visibility of school activities through strategic online presence management.

Preschool Teacher   **Aug 2020 – Jan 2022**

Panda Bilingual Early Education, Cambridge, MA

- **Introduced and implemented the Procare app**, a software solution for managing enrollment, parent communication, and staff scheduling, which streamlined daily operations and improved the efficiency of administrative tasks.
- **Led the transition from manual to digital systems** by training staff on using the app, troubleshooting technical issues, and ensuring smooth adoption of the software, resulting in a 30% reduction in administrative workload.
- **Collaborated with administrators and parents** to gather feedback on the app's performance and user experience, translating their needs into actionable improvements that enhanced communication and fostered a tech-friendly environment.

EDUCATION

Web Development   App Academy – 2024

Master of Arts | Educational Administration   University of Massachusetts – 2016

Master of Arts | British and American Literature   Southwest University – 2017