MENGXUAN LIANG

FULL STACK SOFTWARE ENGINEER

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Full stack software engineer with a focus on creating intuitive applications and improving digital experiences. Leveraging 5 years in early childhood education and 1 year in digital art, I bring a unique perspective on user experience and design to tech.

SKILLS • JavaScript • Python • Flask • React • Redux • HTML • CSS • Node.js • Express • SQL • SQLite3 • PostgreSQL • Websocket • Git • Google Maps API • AWS

PROJECTS

Pawblr | [Github](#) | [Live](#) *React • React Router • Redux • Flask • Python • HTML5 • CSS3 • PostgreSQL • AWS • Render • Websocket*

A social platform for pet lovers where users can create posts, comment, and engage in real-time interactions.

- **Real-Time Interactions**: Leveraged WebSockets to provide real-time updates for comments and posts, ensuring dynamic and engaging user experiences.
- **Secure Authentication**: Integrated Flask and React Router to create a secure and user-friendly authentication flow, with password encryption using Flask-Bcrypt.
- **Cloud Integration**: Deployed on Render, utilizing cloud services for efficient storage and scalability, improving load times and responsiveness.
- **Database Management**: Structured backend data management with PostgreSQL, enabling efficient handling of user data, posts, and comments.

Solocamp | [Github](#) | [Live](#) *React • Redux • Flask • Python • HTML5 • CSS3 • PostgreSQL • Cloudinary • Render*

A Bandcamp clone that allows users to discover and stream music from independent artists, purchase tracks, and review albums.

- **Custom Music Streaming**: Developed music streaming functionality using React and Flask, allowing users to seamlessly listen to demo tracks while navigating the platform.
- **Media Storage**: Integrated Cloudinary for efficient media storage, optimizing the handling of album covers and track files.
- **User Reviews**: Created a review system where users can leave feedback on albums, enhancing the community experience and artist engagement.

BarkBnB | [Github](#) | [Live](#) *Express • Javascript • React • Redux • HTML5 • CSS3 • PostgreSQL • Render*

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 pet 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.

EXPERIENCE

Preschool Director • *Liberty Kids* • Boston, MA   02/2022 – 06/2022
- Managed daily operations and led a team of educators to deliver high-quality early childhood education.
- Developed and implemented curriculum strategies focused on fostering child development and learning outcomes.

Preschool Teacher • *Panda Bilingual Childcare Center* • Cambridge, MA   08/2020 – 01/2022
- Designed and taught bilingual lessons to promote language development in early learners.
- Collaborated with parents and staff to create individualized learning plans, ensuring each child's success in the classroom.

EDUCATION

Web Development - **App Academy**   Completed 09/2024

- Immersive software development program that focuses on full-stack web development, which entailed 1000+ hours of coding.

MA Education - **University of Massachusetts** **Completed 07/2016**
- *Educational Administration* • Boston, MA

MA Education - **Southwest University** **Completed 06/2017**
- *British and American Literature* • Chongqing, China