Ming Liu

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SKILLS

JavaScript, Python, React, Redux, Flask, Express, Node.js, HTML5, CSS3, SQL, AWS, Git

PROJECTS

Mzone (E-commerce Platform - Amazon clone) | *(React/Redux, Flask, AWS)*   **live** | **github**

- Developed a full featured e-commerce web application, mimicking the features and functionalities of Amazon.
- Utilized React/Redux on the frontend to provide a seamless user experience and manage application state. Built the backend using Flask, a Python web framework, to handle server-side logic and database interactions.
- Implemented key features such as products, shopping cart, orders, and reviews to provide customers with a complete e-commerce experience.
- Leveraged AWS S3 for image upload to reduce server load and have stable and scalability of image services.
- Enhanced user experience by adding favorite products and search functionality.
- Built both frontend and backend custom error handling to protect the database from unexpected user data inputs.

Eriscord (Collaborative Communication Platform - Discord clone) | *(React/Redux, Flask, Websockets)*   **live** | **github**

- Collaborated with three other developers utilizing Agile development to develop a collaborative communication platform, similar to Discord.
- Implemented essential features such as servers, channels, direct messages and channel messages, providing users with a comprehensive communication experience.
- Utilized WebSockets to enable real-time chat functionality and enhance the platform's overall usability.
- Successfully completed the project within a week, meeting deadlines and delivering a project that exceeded expectations, through effective collaboration and coordination with team members.

Staybnb (Vacation Rental Platform - Airbnb clone) | *(React/Redux, Express, AWS, Google map)*   **live** | **github**

- Developed a full-stack vacation rental platform, similar to Airbnb, with key features such as spot, review, and booking.
- Utilized React and Redux on the frontend to provide stable user experience and manage application state. Built the backend using Express, a Node.js web framework, to handle server-side logic and database interactions.
- Incorporated Google Maps to enhance user experience and allow for easy location search and browsing of rental spots.
- Utilized AWS for stable image upload, ensuring high-quality images of rental spots were displayed.
- Debugged and resolved issues to improve application performance and stability.

EXPERIENCE

Schlumberger, Houston, TX

Senior Geophysicist - Center of Excellence	2019 - till now
Senior Geophysicist - Project Leader	2015 - 2019
Geophysicist	2012 - 2015

- Member of the Full Waveform Inversion Center of Excellence team, working closely with Research and Development teams to develop commercial workflows for use in operational projects. Successfully transferred knowledge and expertise back to the North America center, which had over 100 people, through on-job training and mentoring.
- Served as Project Leader for 4 large-scale geophysics projects, leading teams of up to 10 members and managing complex marine seismic processing projects with data sizes 20-100Tb. Regularly interfaced with clients, holding weekly meetings to present progress, address concerns, and ensure project success.
- Worked as a Geophysicist and has experience with large scale seismic projects and handling massive amounts of data, as large as 20-100TB. Responsibilities include building workflows, running tests, continually looking for ways to improve results, efficiency and fix bugs, then running pilot tests and production, always focused on timelines and striving to get things right the first time.

EDUCATION

AppAcademy - *Full-Stack Software Engineering Bootcamp* July 2022 - Jan 2023

University of Tulsa - *MS Geophysics and Seismology, 2010-2012*   GPA: 4.0

University of Tulsa - *BS Geophysics and Seismology, 2009-2010*   GPA: 4.0

University of Tulsa - *BS Mathematics, 2009-2010*   GPA: 4.0

China University of Petroleum, Beijing- *BS Geology/Earth Science, 2006-2009*