Meitong Qu

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SKILLS Python, Flask, JavaScript, Node.js, Express.js, React, Redux, HTML5, CSS3, SQL, PostgreSQL, Sequelize, SQLAlchemy, TDD, Git, Docker

PROJECTS

QSlack (Python, Flask, JavaScript, React, Redux, Websockets, AWS, PostgreSQL, SQLAlchemy)   **Live | Github**
A full-stack web application where users can send direct messages, chat in groups, and share moments with comments & likes
- Integrated Socket.IO with Redux's global store to implement a persistent, bidirectional connection between the browser and the server, allowing live updates of real-time chatting for smooth user experience in rich text editing
- Produced intuitive data-visualizations with Javascript implemented algorithms, displaying membership information and users' profile based on user input while inviting other users to chat groups or direct messaging
- Designed timely updates and notifications about invitations to chat groups and deletion of chat groups to improve responsive communication between users, incorporating backend custom algorithm and frontend uni-directional state management
- Developed user autonomy by linking moment posts to their account together with custom modal framework using React component architecture, to ensure fast and efficient development of update forms and delete confirmations
- Created the algorithm to randomly populate the memberships and messages tables for chat groups, by applying SQLAlchemy's object model to manage the multiple tables's association in database

Ingestibles (Python, Flask, JavaScript, React, Redux, React Player, AWS, PostgreSQL, SQLAlchemy)   **Live | Github**
A group full-stack web application project inspired by Instructables for people to explore, share, and create recipes
- Implemented user image and video uploads and storages in AWS S3 and video playing through React Player, reducing server load and allowing for scalability of image and video services
- Built an one-way data flow architecture to render dynamic recipe creation form and pre-filled recipe edit form for highly scalable state management and reliable DOM rendering, and to simultaneously handle association in multiple tables at the backend
- Improved user experience by developing responsive validation and error messages for required input and filtering out empty input

UniqueEnE (Express, JavaScript, React, Redux, PostgreSQL, Sequelize)   **Live | Github**
A full-stack web app inspired by Airbnb which allows users to manage listings as a host and reserve spots as a traveller
- Enhanced customer satisfaction by developing a custom backend logic to prevent booking conflict and fake comments
- Managed the booking CRUD through customizing transactional database operations using PostgreSQL and reducing server load through the utilization of eager loading to extract data from multiple tables in a single query
- Ensured user privacy and autonomy through frontend and backend authentication measures, allowing users to only make changes to their own listings, reservations and comments

EXPERIENCE

SingerLewak LLP   **Irvine, CA**
Senior Tax Accountant   *Feb 2019 – Feb 2021*
- Conducted massive excel analyses in properties of high-net-worth individual and account reconciliation
- Managed clients and reviewed other staff's work in month-end close and monthly financial statements
- Prepared multi-state tax returns, consolidated tax returns, international tax reports in compliance with US federal and state law
- Provided company-wide annual training regarding consolidated and combined tax reportings, tax credits, flow-through income

EDUCATION

App Academy   **Online**
1000+ hour immersive full-stack web development intensive with <3% acceptance rate   *2021-2021*
Topics include: TDD, scalability, algorithms, data structures, OOP, REST, ORM, security, single-page apps, design patterns

DePaul University   **Chicago, IL**
Master of Science in Predictive Analytics (Concentration in Computational Methods)   *2015-2017*
GPA: 4.0/4.0; Curriculum Highlights: Introduction to programming, Database for Analytics, Database Programming, Programming Data Mining Applications, Web Data Mining for Business Intelligence