

DAVID LEE

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

Projects

PERSISTAMP - Productivity and habit-tracking application

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

Team Member | JavaScript, Python, React, Redux, Flask, SQLAlchemy, Recharts Library

- Processed habit-tracking data using Recharts and heatmap APIs to dynamically render live graphs, heatmap grids, and detailed statistics to promote an intuitive visual experience for user analysis
- Implemented React's useReducer and useContext hooks in a seamless combination to persist user preferences and data across components to maintain a consistent, fast user experience
- Utilized GitHub and Kanban boards to coordinate tasks with the team, and withstood member unavailability

CARDME - Flashcard application

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

Solo Project | JavaScript, Python, React, Redux, Flask, SQLAlchemy

- Built a React multiple-choice quiz feature that dynamically generates random questions to prevent quiz format memorization and promote active learning
- Integrated a filterable search feature that uses SQLAlchemy queries to the database and returns matching users, subjects, sets, and cards
- Designed CSS card-flipping animations that reveals or hides the answer by directly clicking the card for an intuitive user experience that feels analogous to real-life

MEDIUMM - Medium clone, a blog-posting application

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

Team Member | JavaScript, Express, Node.js, Pug, HTML, Sequelize

- Constructed an end-to-end 'clapping (liking)' feature by developing creation and deletion API routes to enable users to 'clap/unclap' content and comments from other users into one icon toggle using event listeners for conditional direct DOM manipulation
- Established user and story form-handling function to render appropriate error messages to the user
- Incorporated JSON Web Tokens within session cookies to maintain application security and user authentication while persisting user data

BREAKEVEN - Bill-splitting application

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

Solo Project | JavaScript, Express, Node.js, React, Redux, Sequelize

- Utilized a self-referencing join table using Sequelize and a PostgreSQL database to engineer a friendship system
 - Responsible for the design of cost-splitting algorithm to create and resolve expenses while tracking each member separately to ensure the security and privacy of financial data
 - Structured React components using Redux architecture to streamline data flow and produce reliable DOM rendering
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Education

APP ACADEMY | Remote

Jan 2021

Computer Science, Software Development / Software Engineering & Programming course

UNIVERSITY OF MICHIGAN | Ann Arbor, MI

Apr 2020

Bachelor of Arts - Psychology

Work Experience

BELLY DELI INC. | Ann Arbor, MI

Nov 2017 - Mar 2020

Manager

- Cut hundreds of dollars in monthly costs by analyzing and preparing daily inventory shipments and financial deposits
- Cultivated a synergistic environment by promoting active communication with employer, employees, and clients
- Streamlined teams of 3-4 members to boost productivity, resulting in higher rates of customer satisfaction and 10-15% growth in sales each fiscal year

MIWORKSPACE IT SERVICES | Ann Arbor, MI

Mar 2015 - Feb 2016

Depot Technician

- Improved IT services by installing and supporting MiWorkspace software onto university-owned computing devices
- Optimized local office efficiency by organizing MiWorkspace hardware inventory