Erika Brandon
SOFTWARE ENGINEER

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TECHNICAL SKILLS • JavaScript • Python • SQL • Flask • React • Redux • Node.js • Express.js • WebSockets • SQLAlchemy • Sequelize • PostgreSQL • SQLite3 • Git • GitHub • WebSockets • Postman • Render

RELEVANT SKILLS • Test-Driven Development (TDD) • Object-Oriented Programming (OOP) • RESTful APIs • Wireframing • Git • Project Management • Command Line (CLI) • Agile

PROJECTS

ADOPTR | [Github](#) | [Live](#)   *Flask • React • Redux • SQLAlchemy • Flask-SocketIO • @use-gesture/react • PostgreSQL*

- Engineered a full-stack pet listing application using Flask, React, Redux and React useGesture, implementing swipe-based interactions and responsive design for future mobile scalability
- Designed and optimized a location-based search system using geohashing and the Haversine formula, reducing query time and enabling efficient spatial filtering for listings
- Built a real-time chat system with Flask-SocketIO and SQLAlchemy, featuring persistent message storage, reactive UI updates, and read receipt synchronization across clients
- Implemented a secure, user-verified review system with full CRUD functionality leveraging Flask, SQLAlchemy, React, and Redux for seamless state management and frontend updates

DIMENSIONAL DWELLINGS | [Github](#) | [Live](#)   *Express.js • NodeJS • React • Redux • Sequelize • PostgreSQL*

- Developed a full-featured "Spots" (property listings) system with CRUD operations (Create, Read, Update, Delete) using Express.js, enabling users to manage listings via their dashboard.
- Constructed responsive, modular React components with Redux for state management and custom CSS for styling, ensuring efficient and predictable application behavior.
- Implemented Redux Thunks and fetch requests to synchronize client and Express.js server data, providing real-time updates and centralized asynchronous control.
- Deployed a complete full-stack application (React/Express.js) featuring user authentication, demo login, and intuitive navigation to replicate a live rental platform experience.

EXPERIENCE

INSTRUCTOR • *Power Tots* • Washington, DC   **10/2023 − PRESENT**

- Independently led structured classes across multiple sites throughout the DMV, managing logistics, environment setup, and program delivery with consistency
- Adapt instruction in real-time to meet diverse needs, ensuring consistency and quality
- Maintain high standards for organization, communication, and reliability while operating in fast-changing environments

EDUCATOR • *Rocketship Public Schools - Infinity Community Prep* • Washington, DC   07/2022 − 06/2023

- Led daily operations for a large second-grade classroom, balancing long-term planning with rapid problem-solving
- Collaborated with teaching teams to align on goals, share progress, and iterate on approaches during weekly data reviews
- Designed lessons from scratch, driving engagement and clarity through structured, intentional planning

KINDERGARTEN EDUCATOR • *Memphis-Scholars - Caldwell Guthrie* • Memphis, TN   **04/2021 − 06/2022**

FIRST GRADE EDUCATOR • *KIPP Memphis Academy Elementary* • Memphis, TN   **07/2018 − 03/2021**

AMERICORP MEMBER • *Teach for America* • Memphis, TN   **06/2018 − 05/2020**

EDUCATION

APP ACADEMY • Full Stack Web Development   **04/2025**

WAKE FOREST UNIVERSITY • *B.A. in Psychology, Cum Laude* • Winston-Salem, NC   **05/2018**