

# CARLOS STICH

## SOFTWARE ENGINEER

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### SKILLS

**LANGUAGES:** JavaScript, Python, HTML, CSS, SQL

**FRAMEWORKS & LIBRARIES:** React, Redux, Flask, Express

**OTHER TOOLS & TECHNOLOGIES:** ESRI ArcGIS, RESTful API, AWS S3

### PROJECTS

**SplitServe** (Python, JavaScript, ReactJS, Redux, PostgreSQL, SQLite3, SQLAlchemy) [live](#) | [github](#)

*Track shared expenses and settle debts by splitting bills or bartering tasks and services with friends.*

- Integrated a comprehensive system for tracking and splitting expenses among friends, employing Python and SQL for efficient data handling and Flask for seamless server-side operations.
- Developed a dynamic and interactive user interface using React, optimizing the frontend experience with reusable components and Redux for state management.
- Enhanced user experience with advanced frontend features, including responsive design elements and interactive forms in React, facilitating a smooth and engaging platform for expense management.

**Petsy** (Python, JavaScript, ReactJS, Flask, Redux, SQLAlchemy, PostgreSQL) [live](#) | [github](#)

*A specialized online marketplace for pet supplies, modeled after Etsy.*

- Led a team of three in creating an Etsy-like online marketplace, leveraging Git for branch management, pull requests, code reviews, and conflict resolution to ensure efficient collaboration and high-quality code.
- Developed a full-stack web application using Python, React, and Redux, ensuring a seamless and intuitive user experience. I took on the challenge of designing a review feature that intelligently allows only verified purchasers to post reviews, requiring careful integration of user authentication and purchase history.
- Leveraged Agile methodologies and implemented a Kanban board for effective project management, leading to the successful development of a robust backend infrastructure for an e-commerce platform. This infrastructure supported key functionalities including User accounts, Reviews, Product management, and Order processing, thereby driving the platform's core e-commerce capabilities.

### EXPERIENCE

**Data Engineer II**

Jan 2024 - Present

**Analyst (II, III, Senior)**

Feb 20202 - Jan 2024

**GIS Technician**

Oct 2018 - Feb 2020

*Entergy*

- Built user-facing dashboards while implementing predictive analytics for maintenance and service interruptions using Python and web APIs to extract data from multiple databases.
- Implemented data extraction and reporting processes for GE's Advanced Distribution Management System (ADMS) in both test and production environments, aimed at isolating grid outages.
- Conducted statistical analyses to identify significant deviations, pinpointing issues in the production environment to maintain data integrity

**GIS Coordinator**

*St. Tammany Parish Mosquito Abatement District*

Dec 2018 - Jan 2022

- Led all GIS-related initiatives to construct, test, and maintain geographic data architectures for mosquito abatement.
- Built predictive models and formulated policy recommendations from trap data, conducting regular analysis to inform mosquito treatment schedules and improve public health interventions.

### EDUCATION

**Web Development – App Academy | Fall 2023**

**Bachelor of Science in Earth and Environmental Science – University of New Orleans | 2009 - 2013**