

HELEN COATES

FULL-STACK SOFTWARE ENGINEER

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TECHNICAL SKILLS • JavaScript • Python • Flask • React • Redux • Express • Node.js • HTML • CSS • SQL • Sequelize

RELEVANT SKILLS • Adobe Photoshop • Writing • Client Management • Customer Service

PROJECTS

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

Python • Flask • React • Redux • AWS • CSS

A SoundCloud clone that allows users to upload, listen to, comment on, and like music. A group project.

- Collaborated with three other engineers utilizing a Git workflow. Created branches, resolved merge conflicts, and merged branches onto a development branch before utilizing pull requests to merge approved changes onto the protected main branch.
- Wrote the update song feature to display the current file names uploaded, and allow updates to a single or multiple inputs through AWS uploads, which was integrated into the site with Boto3. Structured the route so as to check if there was new input and delete the existing file from AWS if so to preserve space. It then created a unique filename for the file before attempting to upload it to AWS. It checked the upload attempt for a url and returned an error if it was missing.
- Coded a profile page that allowed the user to upload a profile picture that would be displayed on the navigation bar and when writing a comment. On the backend I added an image column to the user model and created a route that validated the new image url using a form, checked for the current user, and added the image url to the current user's data. Displayed a generic default picture for newly created accounts on the frontend.
- Crafted an aesthetically pleasing user interface by designing and implementing styles using CSS. Made it so a play button appeared over album thumbnails when hovering and would play the corresponding song when clicked, made sure items were centered on all pages, modified the sizes of images to mimic cloned site, placed limitations to prevent an overflow of text wherever there was user input.
- Implemented form constraints on the backend using Flask-WTF, and the front end with React's useState hook, and provided feedback in the form of errors displayed on the forms.

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

Javascript • Express • React • Redux • Sequelize • SQLite3 • CSS

An Etsy clone dedicated to the purchase and sale of cows.

- Created a feature to leave and update reviews, using Javascript to set the star rating and fetch the listing information from the backend route, then sending the star rating and review to another route to post the review.
- Used Express and Javascript to set backend routes to send and receive information to the database to enable changes to individual data and create an interactive, cohesive website.
- Used Sequelize to facilitate modifications to the PostgreSQL database. This included defining data models, creating associations, and performing CRUD operations. The choice to use an SQL database was to take advantage of SQL's strict definitions on sets of data, ensuring data integrity, and its efficient data processing.
- Implemented a store in React with Redux to limit the number of requests made to the database by using a normalized Redux store, enhancing the overall efficiency and responsiveness of the user interface to create a smoother user experience.

EXPERIENCE

Writer/Editor • *Golden Lynx Publishing* • Sun Prairie, WI

06/2012 – 10/2022

- Designed book covers using Adobe Photoshop.
- Wrote and formatted ebooks for online sale using Microsoft Word, Notepad++, and Calibre.
- Edited manuscripts to ensure proper grammar and flow.

Comic Editor • *Freelance* • Lawrenceville, GA

01/2010 – 10/2022

- Used Adobe Photoshop to modify comic pages to insert new text.
- Created website-friendly PNG files for distribution.

