

ELLA HARRASSER

ellaharrasser@gmail.com • 530-521-2155 • [LinkedIn](#) • [Github](#) • [Portfolio](#) • Based in Chico, CA

SOFTWARE ENGINEER

LANGUAGES: JavaScript, TypeScript, Python, HTML, CSS

FRAMEWORKS: React, Redux, Astro, Express.js, Flask, Tailwind CSS

TOOLS: Node.js, Git, AWS, Docker, PostgreSQL

OTHER: Pair Programming, Scrum/Agile, Test-Driven Development

PROJECT EXPERIENCE

VIBRATO • React • Redux • HTML5 • Tailwind CSS • Flask • SQLAlchemy • Alembic • Docker • PostgreSQL [Code](#) • [Live](#)

Full stack clone of Reverb, an e-commerce site centered around new and used music equipment.

- Designed a PostgreSQL database for storing well-structured data with scalability in mind, using an Object-Oriented Programming approach with SQLAlchemy and Alembic.
- Optimized data retrieval in the Flask backend API to reduce unnecessary data transfer and page load times.
- Integrated an AWS S3 Bucket for storing and accessing user-submitted images, increasing security and scalability.
- Implemented Redux to efficiently manage application state in the frontend through dispatched thunk actions, helping to organize data retrieval, storage, and updates for increased predictability and maintainability.
- Migrated components seamlessly to Tailwind CSS to enhance future development speed and reduce stylesheet file size.

FAIRSHARE • React • Redux • HTML5 • CSS3 • Flask • SQLAlchemy • Alembic • Docker • PostgreSQL [Code](#) • [Live](#)

Full stack clone of Splitwise, a web app for fairly managing expenses with friends and groups

- Collaborated with a team of 3 software developers to design, build, and maintain a full stack application, using Scrum methodology and pair programming to synchronize development.
- Utilized Flask-Login for handling secure user authentication and API route authorization with minimal additional code.
- Employed Figma to create wireframes for creating a cohesive site structure and style and better user experience.
- Developed a robust bi-directional, self-referential, many-to-many database relationship between users, utilizing an association table with SQLAlchemy and Alembic.
- Coordinated and accelerated remote group workflow by using git to minimize merge conflicts and organizing tasks and responsibilities through GitHub Issues and Kanban Boards.

EDUCATION

APP ACADEMY • Full Stack Web Development

Completed August 2024

- Achieved proficiency in the JavaScript and Python programming languages as well as computer science fundamentals.
- Honed skills on planning and implementing data structures and algorithms, including minimizing time/space complexity.
- Learned key software development paradigms, including Test Driven Development and Object Oriented Programming.
- Created multiple backend servers with various frameworks, tools, databases, and third-party API integrations.
- Studied core web development concepts such as HTTP, RESTful APIs, and data security.
- Built both static and Single-Page Application frontends using HTML, CSS, and React.

BUTTE COLLEGE • Completed an Associate of Arts Degree in Music • Butte Valley, CA

August 2021 - May 2023

- Became adept at classical, jazz, and contemporary music notation, theory, and composition with no prior experience.
- Performed regularly in the Pop, Jazz, and Wind Ensembles as a guitarist and soloist.
- Composed full orchestral scores intended for live performance by the Wind Ensemble for independent study.
- Frequently recorded, produced, arranged, and performed music in a professional recording studio with live bands.

WORK EXPERIENCE

OAKMONT SENIOR LIVING • Server • Chico, CA

Feb 2022 – Aug 2023

- Worked in coordinated groups to provide rapid food service during high traffic periods.
- Assisted kitchen staff to balance workloads and improve overall workplace efficiency.
- Provided outstanding customer service to maintain a friendly, accommodating living environment for residents.