

Jessica Vaughn | Software Engineer

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[LinkedIn](#) | [GitHub](#) | [Blog](#) | [Portfolio](#)

SUMMARY

Full-stack software engineer with extensive background in education and web-development. Dedicated to crafting solutions and driven by an appreciation for details. I thrive in collaborative environments and actively engage with peers to develop innovative ideas. I embrace new technologies in the pursuit of lifelong learning. Seeking opportunities in front-end, back-end, or full-stack web development.

TECHNICAL PROJECTS

La Junta Crafts [GitHub](#) | [Demo](#) | [Live Application](#)

Purchase and review products through small-business e-commerce website

- Integrated OIDC with Google login and local signup/login using Bcrypt across Flask/React frameworks
- Implemented PayPal API for seamless user checkout experience
- Utilized Flask-RESTful extension to build API and routes
- Enacted full CRUD operations; utilized PostgreSQL and Alembic for database migrations
- Used yup and Formik libraries for front end form validation; wrote validations and constraints for database models in Flask
- Instantiated Flask session objects to track user and cart data
- Managed state with useContext and useState hooks
- Built and maintained CI/CD pipeline using Git and Render
- Created responsive design using Tailwind and custom CSS

myTunes Music Application [GitHub](#) | [Demo](#)

Create unique playlists and listen to music through Spotify

- Incorporated user authentication using Bcrypt and cookies to track user sessions
- Built API utilizing Flask-RESTful extension
- Deployed Flask/React application and PostgreSQL database through Git and Render
- Enacted full CRUD operations; utilized PostgreSQL and Alembic for database migrations
- Utilized Spotify Developer API to seed database with real music data
- Wrote custom CSS leveraging Sass

Brewery Tap List [GitHub](#) | [Demo](#)

Track inventory and manage current beer list for small to large breweries

- Built controlled form components in React, allowing users to add their own beers to the database
- Incorporated filter for users to easily search for beers by name or style
- Leveraged React state to update inventory, on tap list, and coming soon list
- Wrote custom CSS incorporating Semantic UI

Locker Inventory [GitHub](#) | [Demo](#)

Manage locker assignments through the CLI utilizing a SQL database

- Developed a custom CLI with robust error handling for a seamless user experience
- Created and managed database migrations using SQLAlchemy and Alembic; built many-to-many relationships
- Implemented a clean and organized modular code structure to enhance readability and maintainability
- Wrote custom query methods to implement full CRUD operations

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, YAML, HCL, HTML, CSS | **Frameworks:** React, Flask, Sass, Tailwind, Semantic UI, SQLite, SQLAlchemy, PostgreSQL | **Tools:** Alembic, Docker, Git, GitHub Actions, Kubernetes, Ansible, Terraform, Jenkins, Render

EXPERIENCE

Cherry Creek School District & Aurora Public Schools

Greenwood Village & Aurora, CO

Instrumental Music Teacher

08/2015 - 07/2023

- Grew Gateway High School instrumental music program from 125 to 180 students in first two years of tenure
- Differentiated instruction for 190 students daily across four concert bands, jazz band, and piano courses
- Successfully advocated for increasing full-time instrumental music staffing to support student retention data
- Earned highest state marching band ranking in Cherry Creek High School history in 2021
- Served as district instrumental music teacher leader for two years in Aurora Public Schools
- Managed nine instructional staff members over eight year career
- Managed and reported on six budget lines annually

EDUCATION

Flatiron School

Software Engineering Certificate

Denver, CO

07/2023

Full Stack Web Development, JavaScript, React, Python, Flask, and SQL program

Ithaca College

Master of Music - Music Education

Ithaca, NY

08/2019

University of Colorado Boulder

Bachelor of Music - Music Education

Boulder, CO

05/2015