

Elysa Ward

Software Engineer

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Summary

Skilled Software Engineer and Mathematician with experience in education, web application development, and automated testing. Strong problem-solving abilities and a talent for simplifying complex challenges. Committed to delivering high-quality, client-focused solutions and fostering collaboration within teams and communities.

Technical Skills

Languages/Frameworks: React, Ruby, Rails, JavaScript, SQL, HTML, CSS, Node.js, Typescript, Tailwind

Testing: Rspec, Cypress, FactoryBot, Faker, WebMock, VCR

Tools/Workflow: Agile practices, TDD, RESTful APIs, Git, GitHub, GH Projects, Heroku, Postman, Postico, Miro, Figma, Jira, PostgreSQL

Currently learning: Python, Kotlin, Swift, Go

Projects

RepRadar | Group Project | [Repo](#) | **Tech:** React, Ruby on Rails, Cypress, Rspec, 5Calls API, Federal Register API

Web application that provides users with easy access to most recent executive orders and representative contacts by an input zip code.

- Designed an intuitive frontend using React and CSS to improve user experience and interaction
- Implemented endpoints in rails backend to retrieve representative information from 5calls API and set up behaviors to isolate targeted information (i.e. name, district, party affiliation, contact number, etc.) to be distributed to the frontend

Bloom&Brew | Solo Project | [BE Repo](#) | [FE Repo](#) | **Tech:** React, Ruby on Rails, Cypress, Rspec

An administrative portal for a tea subscription service that allows business managers to efficiently track and manage subscriptions. The platform provides detailed insights into each subscription, including customer information and curated tea selections.

- Completed in 16 hours as a technical exercise
- Built a backend API to store, access, and manage subscription information using Active Record to query the database
- Designed an aesthetic and simply frontend using React components to display information dynamically and implemented sorting behavior to organize displayed information

Professional Experience

Student Teacher @ Denver Public Schools, Denver, CO

08/2017 - 12/2019

- Presented lessons to classes of 20+ students in 9th to 12th grade, fostering an interactive and inclusive classroom environment.
- Developed engaging Pre-Calculus lessons, leading to a higher class participation and a deeper understanding of Trigonometry concepts
- Supported students with one-on-one tutoring contributing to improved student confidence in reading prompts in English and independently solving algebra problems
- Collaborated with fellow teachers to create Math projects and support students through projects, resulting in a significant improvement in student retention and performance

Education

Accredited Certificate in Fullstack Development

Turing School of Software and Design

05/2025

B.A. in Mathematics | Minor in Computer Sciences

Metropolitan State University of Denver
Denver, CO

12/2022