

# Elysa Ward

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## Summary

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Software engineer with Mathematics and Computer Science background building scalable web applications using Ruby on Rails, TypeScript, and React. Experienced in cloud deployment, CI/CD automation, and agile development with proven ability to quickly master new technologies and deliver robust, maintainable code. Passionate about building fault-tolerant systems and contributing to high-performing engineering teams.

## Technical Skills

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### Languages/Frameworks:

Ruby on Rails, JavaScript, TypeScript, React.js, Vue.js, Node.js, Next.js, Python, HTML5, CSS

### Cloud & Deployment:

Heroku, Render, GitHub Pages, CI/CD Automation (GitHub Actions, CircleCI), Docker (familiar)

### Development Tools:

Git, GitHub, npm, Webpack, Vite, Postman, Chrome DevTools, JIRA, Figma

### Databases & APIs:

PostgreSQL, MySQL, Redis, SQLite, RESTful API, JSON, XML, API Integration

### Testing/Quality Assurance:

Test Driven Development (TDD), RSpec, FactoryBot, Cypress, Unit Testing

### Practices & Methodologies:

Agile/Scrum, Object-Oriented Programming (OOP), Pair Programming, Code Reviews, CI/CD Pipelines, Performance Optimization, Cross-Browser Compatibility, WCAG Standards, Observability & Monitoring, Error Handling & Retry Logic

## Education

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Accredited Certificate | Full-stack Development

Graduated 05/2025

Turing School of Software and Design | Denver, CO

B.A. in Mathematics | Minor in Computer Science

Graduated 12/2022

Metropolitan State University of Denver | Denver, CO

## Projects

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### Portfolio

[Live Site](#) | [FE Repo](#)

Technologies: Vue.js 3, TypeScript, Vite, Vue Router, CSS, GitHub Pages, JSON data services (migrating to Rails backend)

Modern portfolio site showcasing technical projects through interactive galleries, built from scratch while self-teaching Vue.js and TypeScript

- Architected scalable component system with 37 nested Vue components using Composition API (ref, computed), 2 custom composable for reusable logic, and extensive TypeScript types for type safety and maintainability
- Implemented data services pattern with 6 utility files to manage application state from JSON files, establishing clean separation of concerns and API-ready architecture for planned Rails backend integration
- Developed with Vite build tooling and Vue Router for navigation, deployed to GitHub Pages with automated CI/CD; currently implementing responsive design and planning Redis caching for performance optimization
- Building enhanced project showcase features including embedded Figma boards to demonstrate collaborative design process and team planning workflows

### Tracker

[Live Site](#) | [BE Repo](#) | [FE Repo](#)

Technologies: Ruby on Rails, TypeScript, React.js, PostgreSQL, CI/CD (CircleCI), API Integration (TipTap), RSpec, Cypress, Tailwind CSS  
Job tracking application that organizes contacts, target companies, and application status in a centralized dashboard

- Automated deployment pipeline using CircleCI and GitHub Actions, enabling continuous delivery to Heroku with zero-downtime deployments and automated testing
- Refactored 5+ frontend components to establish consistent design system, resolved 10+ UI bugs, and optimized codebase with isolated interfaces to improve maintainability and code quality
- Integrated Tiptap editor for rich text formatting with 4+ styling options, implementing client-side state management and error handling to ensure reliable note editing
- Conducted 15+ code reviews for team members, providing constructive feedback on React component architecture, TypeScript typing, and Rails API design patterns while maintaining 90%+ test coverage

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## RepRadar

[Live Site](#) | [BE Repo](#) | [FE Repo](#)

Technologies: Ruby on Rails, React.js, PostgreSQL, API Integration (5Calls API, Federal Register API), RSpec, Cypress

Web application that helps users stay informed about executive orders and connect with their representatives using zip code search

- Deployed full-stack application to Render with automated CI/CD pipeline, implementing environment-based configuration and database migrations for reliable production deployments
- Architected React frontend with 20+ reusable components and WCAG-compliant design, implementing cross-browser compatibility and responsive layouts to ensure accessibility across devices
- Implemented 10+ Rails API endpoints with Redis caching and retry logic to integrate external APIs (5Calls, Federal Register), reducing API response times by 40% and improving fault tolerance
- Led daily code reviews and pair programming sessions, debugging complex issues and strengthening team collaboration while maintaining 95%+ test coverage across backend and frontend

## Professional Experience

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Independent Tutor | Dragonfly Education | Boulder, CO

11/2025 - Present

- Provide individualized tutoring specializing in math and computer science, with support across all subjects and executive functioning skills
- Manage all business operations including scheduling, curriculum development, travel coordination, and quarterly tax obligations
- Collaborate with parents and teachers to assess student needs and develop customized, student-centered curricula that strengthen engagement and improve outcomes

Student Teacher | Denver Public Schools | Denver, CO

08/2017 - 12/2019

- Collaborated with teachers, counselors, and administrators to analyze student performance data and implement targeted interventions for 20+ students, while developing and delivering 50+ technical lessons translating complex mathematical concepts into accessible knowledge for diverse learners