Elysa Ward

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Summary

Software engineer with Mathematics and Education background building scalable web applications using Ruby on Rails, TypeScript, and React. Experienced in CI/CD pipelines, agile development, and code reviews with proven ability to quickly master new technologies and deliver robust, maintainable code.

Technical Skills

Languages/Frameworks:
Ruby on Rails, JavaScript, TypeScript, React.js, Node.js, HTML5, CSS, Next.js, Vue.js, Python

Development Tools:
Git, GitHub, GitHub Actions, CircleCI, npm, Webpack, Vite, Postman, Chrome DevTools, JIRA, Figma, Heroku

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

Education

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

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
- Refactored 5+ frontend components to establish consistent design system, resolved 10+ UI bugs, and optimized codebase with isolated interfaces to improve maintainability
- Integrated Tiptap editor for rich text formatting with 4+ styling options, managing state client-side to eliminate API integration bugs and 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

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
- 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 to integrate external APIs (5Calls, Federal Register) and manage database persistence for user-saved contacts
- Led daily code reviews and pair programming sessions, debugging complex issues and strengthening team collaboration

Professional Experience

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