

# JOHN FEATHERSTONE

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Software developer and former planner committed to creating resilient, intuitive software in service of people and places.

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## SKILLS

**Languages** JavaScript, HTML, CSS, TypeScript, Python, Ruby, SQL

**Libraries/Frameworks** React, Django, Node.js, Next.js, GraphQL, Redux, Router, Tailwind, Bootstrap, Leaflet, Postman, Firebase

**Test-Driven Development** Mocha, Chai, Jest, Cypress

**Other** Git, GitHub, CI/CD, REST architecture, Agile, accessibility, Adobe Illustrator, Figma, ArcGIS, Mapbox, AWS, Kafka

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## TECHNICAL PROJECTS

**CoProject** Solo Project | Ongoing | [FE Repo](#)

**Technologies** React, Vite, Firebase, Recoil, MaterialUI

An ongoing project to create a scalable platform for Coloradans to collaborate around their creative endeavors.

- Implemented a NOSQL Firebase cloud database to prioritize the ability to quickly start a demo/review/revise cycle.
- Refactored project to use higher-order components and centralized theme/style configurations to improve long-term development efficiency, readability, and maintainability in expectation of future collaborators.

**Game Night** Team Project | 20 hours | [FE Repo](#) | [BE Repo](#) | [Deployed Site](#)

**Technologies** JS, React, Cypress, GraphQL, Redux, Router, GitHub Actions

Collaborated on a team of 8 developers to build a game event matchmaker and an AI generator for tailored game recommendations.

- Designed and implemented the front-end using Redux for state management and Apollo to integrate GraphQL API requests.
- Developed reusable components for common UI elements to facilitate rapidly building out consistently designed new features.
- Implemented responsive design using grid, flexbox, and media queries to ensure adaptive layouts across devices.

**Colorado Owl Watch** Solo Project | 20 hours | [Repo Link](#) | [Deployed Site](#)

**Technologies** JavaScript, React, Cypress

Developed a customizable owl tracker that uses eBird API data and spatial libraries to show curated real-time sighting areas and info.

- Facilitated usability tests with Denver Audubon members to pursue a review/revision, user-driven development process.
- Wrote end-to-end tests with Cypress to validate core user flows from navigation to API response handling.

**Fitlit** Team Project | 40 hours | [Repo Link](#)

**Technologies** JS, Mocha/Chai, DayJS, Leaflet, ChartJS

Worked with a team of 4 developers to create a dashboard allowing users to track their health statistics and map their latest runs.

- Refactored the codebase and redesigned the UI to implement accessibility principles (tab navigation, semantic HTML, color contrast, ARIA attributes).
  - Implemented unit testing in line with red, green, refactor test-driven development principles to achieve 100% test coverage.
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## EXPERIENCE

**Colorado Department of Transportation, Office of Innovative Mobility** (Denver, CO)

*Project Manager*

**10/2021 - 11/2022**

- Developed a statewide strategy for managing transportation demand using advances in real-time traffic probe data.
- Secured over \$100 million in competitive electric vehicle funding through the preparation of a proposal and spatial analysis.

*Project Coordinator*

**04/2021 - 10/2021**

- Adapted rapidly as emergency interim manager of the COVID relief program to review, support, and award over 200+ infrastructure projects reviewed on a weekly basis by implementing a sprint-style structure of rapid organizational iteration.
- Created and managed the launch of three new statewide programs to pilot emerging mobility technologies.

*Innovative Mobility Specialist*

**10/2019 - 04/2021**

- Self-taught spatial data analysis and modeling software to create service schedules for last-minute transit service roll-out.
  - Worked cross-industry to produce research leading to the implementation/calibration of fees on ridesharing companies.
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## EDUCATION

**Turing School of Software and Design**, Accredited Certification in *Front End Software Engineering*

**08/2023**

**University of Colorado**, Denver CO, *Master of Urban and Regional Planning*

**05/2019**

**Kean University**, Union NJ, *Bachelor of Arts in Economics*