

Civic News | Senior Data Editor

2021 - present

At Civic News I manage a team that handles data analysis, visualization, and special projects for Chalkbeat's national desk, its eight local bureaus, and Votebeat.

- Led the design and development on Chalkbeat's first large-scale visual storytelling projects, on [school curriculum challenges](#) and [cafeteria fridges](#)
- Built newsroom tools, such as a [social card image generator](#) that used custom elements as an expressive canvas layout language.
- As data editor, organized and coordinated the visualization and analysis for major news events across bureaus, such as [the release of national test scores](#) or [pandemic-era teacher turnover](#)

NPR | Senior News Apps Developer

2018 - 2021

Taking over primary development duties just before the 2018 election, I revitalized the tools, technology, and workflow of the industry-leading NPR News Apps team.

- Worked with NPR reporters and editors to tell dynamic, engaging stories in a web-first format, including [herd immunity against COVID-19](#), [flooding in small-town America](#), [recycling](#), [climate change in Mongolia](#), and the Pulitzer-finalist [White Lies](#) podcast.
- Redesigned the much-beloved NPR Book Concierge using [cutting edge techniques](#), delivering seven years of filterable, explorable book recommendations to audiences from a single page.
- Designed and built a [new liveblog publishing tool](#), used for primary election and debate coverage, including tens of thousands of concurrent readers on Super Tuesday.
- Built and maintained all-new [primary](#) and [general](#) election rigs that delivered some of the fastest and most accessible live election results in the world.
- [Rebuilt NPR's dailygraphics rig](#) as a modern Node app, including support for live reload, JavaScript bundling, and in-browser UI for graphic creation, duplication, and deployment.

The Seattle Times | News Developer

2014 - 2018

As a founding member of the paper's Interactives team, I created award-winning digital storytelling, built newsroom tools, and served as a technical resource for reporters and editors. Among other things, I led development for stories on [high-priced surgical misconduct](#), [public transit funding](#), [book recommendations](#), and the [Profanity Peak wolves](#)

ArenaNet | Web Programmer

2012 - 2014

Working on a small team within the studio, I built and maintained web apps and middleware for account management, marketing, API access, and in-game UI.

CQ Roll Call | Multimedia Team Lead

2009 - 2012

As head of the Multimedia Team, I created interactive data visualizations for CQ Weekly, our news magazine covering government policy and legislation.

Skills

Front-end development: Expert with HTML, CSS, and JavaScript. Experience with Vue, Leaflet, React, D3, SVG, and WebGL.

Accessibility: Knowledgeable about building rich pages and UI components that can meet or exceed WCAG standards.

Other languages: Python, Visual Basic, PHP, Java. Experienced in building back-end systems in Node using Express, Hapi, and the core library.

Data and geospatial analysis: Excel, PostgreSQL, Google Sheets, Open Refine, QGIS

System administration: Linux (CentOS and Ubuntu), AWS (EC2, S3, IAM, and CloudFront), Apache, nginx, Vagrant

Management: Experienced trainer, project lead, and public speaker

Accomplishments

Caret: Primary developer of this Chrome OS-based text editor, with more than a quarter of a million active users

Open source: Developer of multiple open-source front-end libraries, including custom elements for powering maps and visualizations

Public speaking: Presenter at SRCCON, SeattleJS, CascadiaFest, Hacks/Hackers Seattle, and NICAR

Teaching: Guest lecturer at the University of Washington, instructor at Seattle Central College from 2012 to 2015

Awards: Recognized for work by Associated Press Sports Editors, Online News Association, Society for Professional Journalism, the White House Press Photographers Association, and the Society for News Design