

# Drew King

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## SUMMARY

UX Engineer with more than two years of experience working in a variety of software environments.

**Industry Skills:** Contextual Inquiry, Iterative Design, Software Design, SEO, Data Aggregation, Data Visualization

**Tools & Technologies:** R, dplyr, ggplot2, git, React, Typescript, Next.js, d3.js, QGIS, WordPress, CI/CD Pipelines

## EDUCATION

### University of Washington

*Bachelor of Science in Computer Science*

Seattle, WA  
December 2024

- Mathematics for Computation Workshop, Teaching Assistant for Autumn 2022
- Dean's list for Summer and Autumn 2023
- Ability – Student Organization, Co-Chair for 2024

## TECHNICAL EXPERIENCE

### KBCS – Radio Station

*Web Developer*

Bellevue, WA  
September 2024 - Present

[staging-kbcsfm.kinsta.cloud](https://staging-kbcsfm.kinsta.cloud)

- Identifying usability problems with the production website using manual and automated accessibility testing to check compatibility with assistive technology such as screen readers and screen magnifiers.
- Collaborating with Bellevue College IT to update the WordPress theme to comply with Web Content Accessibility Guidelines at the 2.1 AA level.
- Testing the modified WordPress theme for compatibility with assistive technology, visual bugs and non-visual bugs and ensuring that theme is optimized for Search Engine Optimization (SEO).
- Staging theme on Kinsta to ensure compatibility of RSS feed with a third-party mobile app provider.

### High Speed Rail

*Project*

University of Washington  
October 2024 – December 2024

[kingdrewsea.vercel.app/high-speed-rail](https://kingdrewsea.vercel.app/high-speed-rail)

- Crafted a detailed interactive visualization using the d3.js library that illustrates potential high speed rail lines in the United States by allowing people to create their own theoretical high speed rail network.
- Aggregated geospatial data using QGIS and table data to create TopoJSON files, estimating ridership using dplyr in R, enhancing the speed of the visualization render time by tenfold.
- Utilized advanced state management techniques such as React Context and Callbacks, allowing partial re-rendering of the component (callbacks) and passing state to the ridership table (context provider).
- Led a team of software engineers to publish our visualizations to GitLab pages using CI/CD pipeline's, ensuring that deadlines were met, and labor was distributed fairly, earning us a perfect score on this assignment in four weeks.
- Published in Next.js portfolio linked at the top of the resume, used with permission from the professor.

### MindMii

*Project*

Seattle, WA  
March 2023 - June 2023

[kingdrewsea.vercel.app/mindmii](https://kingdrewsea.vercel.app/mindmii)

- Designed and led a three-day diary study with the Huskies for Neurodiversity community, gathering in-depth data on texting behaviors.
- Collected and synthesized emotional analyses from remote journal entries, focusing on unique communication needs of neurodivergent participants.
- Created iterative Figma mockups for the MindMii app, incorporating feedback to refine notification clarity and AI-driven reply features.
- Analyzed diary study findings to pinpoint response anxiety, overbooking, and time zone challenges as major communication barriers.
- Proposed and planned next steps, including further user testing in Figma to ensure an accessible and user-friendly final design.