# Drew King

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## SUMMARY

UX and Data Engineer with leadership experience specializing in accessibility, data prep, data visualization, and SEO.

**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 Pipeline

## EDUCATION

**University of Washington**                                                                 Seattle, WA
*Bachelor of Science in Computer Science*                                        December 2024
• Dean's list in Summer and Autumn 2023
• Ability student organization Co-Chair
• CSE 390Z Teaching Assistant

## TECHNICAL EXPERIENCE

**KBCS – Radio Station**                                                                    Bellevue, WA
*Web Developer*                                                              September 2024 - Present
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 – Train Builder (Project)**                         University of Washington
https://kingdrewsea.vercel.app/high-speed-rail                 October 2024 – December 2024
 • 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 which could be read by d3 and created a table of all possible high speed rail connections and an estimate of the ridership using dplyr in R.
 • 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.

**Infectious Disease Lab, Fred Hutch**                                              Seattle, WA
*Research Internship*                                                          March 2021 - August 2021
https://arxiv.org/abs/2311.03313
 • Established guidelines on utilizing variable selection in data modeling algorithms with small datasets, using data simulation code generated by the Principal Investigator, to assist bioinformaticians working with rare diseases.
 • Created scripts in R using dplyr to aggregate experiment results and design data visualizations using ggplot2 with preliminary results in less than six months.
 • Co-authored research paper pending peer review, available on ARXIV open access.

## LEADERSHIP EXPERIENCE

**Ability – Student Organization**                                     University of Washington
*Co-Chair*                                                                     January 2024 – December 2024
• Led a team of students to promote accessibility and empowerment in education in computing and STEM.
• Collaborated on setting clear goals, accepting feedback, and strengthening the relationships of Ability officers.
• Educated officers on web content accessibility guidelines (WCAG), resulting in accessible promotion and events.