

Drew King

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SUMMARY

Front End Engineer specializing in accessibility and data visualization.

Industry Skills: Contextual Inquiry, Data Aggregation, Data Visualization, HCI Research, Software Design

Tools & Technologies: R, dplyr, ggplot2, git, React, Typescript, nextJS, d3.js, QGIS, WordPress

Interpersonal Skills: Communication, Active Listening, Leadership, Collaborative Problem Solving

EDUCATION

University of Washington, Seattle, WA

December 2024

Bachelor of Science in Computer Science

- Dean's list for Summer and Autumn 2023
- Ability Co-Chair
- CSE 390Z TA

TECHNICAL EXPERIENCE

KBCS – Radio Station

Bellevue, WA

Web Developer

September 2024 - Present

- Identifying accessibility issues with the production website using manual and automated 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
- Theme is currently being staged to ensure compatibility with the 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.
- 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.
- The train builder is in my nextJS portfolio with permission from the professor, utilizing advanced state management techniques such as React Context and Callbacks, allowing partial re-render and passing state to the ridership table.

Infectious Disease Lab, Fred Hutch

Seattle, WA

Research Internship

March 2021 - August 2021

- Established guidelines on utilizing variable selection with data models used in clinical research trials with small populations. Generated results from the experiment in six months with a research paper currently in peer review.
- Identified which data fitting tools perform best for small data with many covariates by executing experiments comparing the performance of open-source data modeling and variable selection algorithms.
- Executed data simulation code using GitHub with RStudio and collaborated virtually. Creating R scripts aggregating experiment results and designing data visualizations using the dplyr API for R.

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 STEM education.
- Collaborated on setting clear goals, accepting feedback, and strengthening the relationships of Ability officers.
- Designed a SCRUM board for events in collaboration with another officer for events of 20-30 people.
- Educated officers on content accessibility and universal design, leading to more accessible events and marketing.