Caleb Diehl | Data Visualization Developer

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# Skills

**Front-end Frameworks:** React, Redux  
**Languages:** TypeScript, JavaScript, HTML / CSS, Python  
**Data Visualization:** D3.js, Mapbox GL JS  
**Geospatial analysis:** Geopandas (Python), QGIS  
**Design:** Figma, Adobe Creative Suite  
**Modern Web Practices:** Responsive Web Design, accessibility testing, REST APIs  
**Testing:** React-testing-library, Jest, Lighthouse

# Experience

## Data Visualization Developer, The Associated Press October 2022 – Present

* Re-designed and built AP’s most-read interactive, a TypeScript application using REST APIs to track real-time wildfire data throughout the United States
* Designed and built complex user interfaces for 13 data storytelling projects for thousands of readers
* Analyzed geospatial data in Python and built interactive maps using Mapbox GL JS and D3.js
* Contributed re-usable TypeScript components to 3 internal libraries and analysis packages

## Data Analyst, IBI Group May 2021 — October 2022

* Wrote Python and SQL ETL pipelines for more than 1 billion smart card travel records from Washington, DC transit agencies and built custom React app to visualize study findings
* Contributed to winning 3 major projects through competitive proposals and presentations

## Graduate Research Assistant, Urban Freight Lab October 2019 – May 2021

* Published 3 peer-reviewed papers on simulation and statistical modeling of delivery costs
* Developed causal inference study design, led data collection with around 15 student staff, built statistical models in R to test hypotheses, and published results in the leading U.S. journal for transportation research

# Education

## Master of Urban Planning, University of Washington, 2021

## Urban Informatics Specialization | GPA: 3.9

Courses: Data Visualization, Machine Learning for Civil Engineers, Data Science for Public Policy