

# Kairsten Fay

## Full Stack Developer

Software developer exploring the intersection of data science and user-friendly web applications



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kairstenfay.github.io



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## SKILLS & COMPETENCES

Statistical data analysis

Data visualization

Web development

## LANGUAGES

Python



PHP



JavaScript



## INTERESTS

Scientific research

Environmental issues

Open source software

## WORK EXPERIENCE

### Full Stack Web Developer

#### Institute for Health Metrics and Evaluation (IHME)

10/2018 – Present

Seattle, WA

An independent public health research institute at the University of Washington

##### Achievements/Tasks

- Maintained code for the GHDx, the world's largest catalog of public health data, which receives over 50,000 visitors per month. [↗](#)
- Improved the custom codebase behind the GHDx by refactoring and rearchitecting code to reduce complexity, deleting thousands of lines of legacy code, and preparing for Drupal 8 migration.
- Improved usability of internal tools to delight customers after gathering stories for a better user experience
- Contributed to a positive work culture by leading a staff feedback group that met with senior management, organizing game nights, hosting book clubs, and mentoring new hires.

### Data Analyst

#### Institute for Health Metrics and Evaluation (IHME)

02/2017 – 09/2018

Seattle, WA

##### Achievements/Tasks

- Published data visualizations and statistical analyses in scientific papers such as the GBD, an annual publication in the Lancet that estimates mortality and disability worldwide.
- Designed and created interactive visualization dashboards to promote the nutrition team's publications and data coverage [↗](#)
- Developed and deployed new machine learning models that improved the accuracy of epidemiological predictions in data-sparse regions by 50-100%.
- Improved the ETL pipeline code to prevent data loss and reduced extraction time by 20%, saving 600 hours of Data Analyst time.
- Built an HTTP-based API for a central database to build a natural language processing application

## EDUCATION

### Courses in computer programming

#### University of Washington

03/2018 – 08/2018

Seattle, WA

### B.S. Biological Sciences: Ecology, Evolution, and Conservation

#### North Carolina State University

08/2011 – 05/2015

Raleigh, NC

## ACHIEVEMENTS

### Rookie of the Year (06/2018)

Awarded by the Institute for Health Metrics and Evaluation

### Amazon Catalyst Finalist (02/2018)

Applied through UW CoMotion

### Caldwell Fellowship (02/2012 – 05/2015)