Kairsten Fay

Full Stack Engineer

Passionate about linking User Interface (UI), User Experience (UX) and data science

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WORK EXPERIENCE

Full Stack Web Developer
University of Washington 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 the GHDx, website of the world's largest catalog of public health data, with traffic of about 50,000 visitors per month. Rearchitected modules to prepare for Drupal 8 migration. ↗
- Refactored our codebase to reduce complexity and replaced thousands of lines of legacy code
- Improved usability of internal tools to delight customers by speeding up processing times and by gathering and implementing stories for a better user experience
- Co-developed framework to quickly and uniformly deploy JSON REST APIs
- Worked both individually and collaboratively on an agile team

Data Analyst
University of Washington Institute for Health Metrics and Evaluation (IHME)

02/2017 – 09/2018   *Seattle, WA*
Achievements/Tasks

- Published data visualizations (including dashboards) and statistical analyses online and in scientific papers like the Lancet.
- Developed a machine learning framework in scikit-learn (python) using random forest and XGBoost algorithms, subsequently unifying the delivery of and accuracy of results by 50-100%.
- Improved the ETL pipeline code to prevent data loss. Reduced extraction time by 20%, saving hundreds of hours of data analyst time.
- Built an HTTP-based REST API for a central database to build a natural language processing application
- 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.

EDUCATION

Continuing education: Computer Science
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*

SKILLS

Data analysis   git   Data visualization
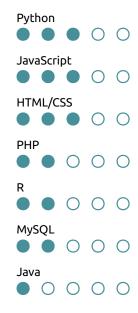React.js   Node.js   IntelliJ Idea IDE
AWS   Flask   Tableau

ACHIEVEMENTS

IHME Annual Awards Rising Star recipient (06/2018)

University of Washington CoMotion / Amazon Catalyst finalist (02/2018)

NC State Caldwell Fellowship recipient (02/2012 – 05/2015)

LANGUAGES

Python
● ● ● ○ ○

JavaScript
● ● ● ○ ○

HTML/CSS
● ● ● ○ ○

PHP
● ● ○ ○ ○

R
● ● ○ ○ ○

MySQL
● ● ○ ○ ○

Java
● ○ ○ ○ ○