

Joshua Keating

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ABOUT

- I'm passionate about using software development and data science to solve complex problems in a functional way to better my life and the lives of others.

EDUCATION

- **University of Washington** Seattle, WA
Expected Bachelor of Science in Informatics (junior) 2015 – 2019
 - **Relevant Coursework (Informatics):** Relational Databases, Networks and Distributed Applications, Information Assurance & Cybersecurity, Population Health Metrics, Intellectual and Technical Foundations.
 - **Relevant Coursework (Computer Science):** Data Structures and Algorithms, Linux and C Programming, Computer Programming I,II
 - **Awards:** Informatics Hackathon (2nd place), INFO 200 project fair (Best Implemented)

EXPERIENCE

- **Gulfstream Aerospace** Savannah, GA
Software Developer Intern Jun 2017 - Sep 2017
 - **Developed:** Built and supported software used for CAD data management and collaboration between engineering teams. Implemented a data validation tool (Excel Plugin) with VB and SQL that helped streamline minor SQL database changes and ensure data integrity.
 - **Learned:** Agile/Waterfall hybrid development principles, how to articulate decisions made during development in design meetings. Worked collaboratively on production software solutions and databases using version control and distributed database tools.

PROJECTS

- **Professor Picker:** Open source web application for comparing University of Washington professors against each other by average GPA by class. Built using R to crunch the data, plotly to create dynamic plots, and the Shiny web framework for reactive web backend.
- **ACA Repeal Visualization:** Data visualization analyzing the effects of the proposed Affordable Care Act repeal. Using R, applied data science techniques to a large propriety dataset of US health care spending to create an alluvial plot.
- **Personal Website:** Designed and implemented a responsive personal website using the Bootstrap framework, HTML, and CSS. Hosted on an Amazon S3 instance.
- **Mexico City Policy Analysis:** Web application that analyses the effects of the Mexico City policy on women's reproductive health in Sub-Saharan African countries using United Nations data sets, and web scraped data. Built with R and Shiny.
- **Linux Hobbyist Programming:** Active user and contributor of open source software, written a number of shell scripts and functions to improve work flow and performance on my system.

PROGRAMMING SKILLS

- **Languages:** Java, VB.NET, SQL, R, HTML, CSS
- **Technologies:** AWS, Shell, Git, TFS, Shiny