

Joshua Keating

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Education

- **University of Washington** Seattle, WA
Bachelor of Science in Informatics (senior) 2015 – 2019
 - **Relevant Informatics Coursework:** Software Architecture (498), Relational Databases (330), Networks and Distributed Applications (341), Information Assurance & Cybersecurity (310), Population Health Metrics (498), Intellectual and Technical Foundations (200, 201), Design Thinking (IP)
 - **Relevant Computer Science Coursework:** Data Structures and Algorithms (373), Database Systems (414), Machine Learning (416), Linux and C Programming (374)
 - **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.
- **Cross Browser Keyboard Navigation Extension:** Firefox and Chrome browser extension that allows the user to navigate user defined pages using Vim-like key bindings. Built with TypeScript and Node JS.
- **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

- **General Purpose Languages:** Built applications at scale with Java and VB.NET, Built memory manger with C
- **Databases:** Design and management using SQL and NoSQL running on AWS EC2, EMR and Azure
- **Data Analysis:** Experience using R and Python in; standalone scripts, integrated into interactive web apps, and Jupyter notebooks. Comfortable with popular libraries such as pandas and distributed cloud computing using Spark
- **Web Frameworks:** Built solutions for the web leveraging TypeScript, Node, Webpack, and Bootstrap
- **Version control:** Git, TFS for project management using TFVC and Git, SVN
- **Data Viz:** Proficient with plotting libraries like ggplot and Plotly as well as pre-built solutions like Power BI