

# Joshua Keating

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<https://joshuakeating.com>

## Education

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- **University of Washington** Seattle, WA  
*Bachelor of Science in Informatics (senior) (3.85 Major GPA)* 2015 – 2019
  - **Relevant Informatics Coursework:** Software Architecture (498), Data Science (IP), Relational Databases (330), Networks and Distributed Applications (341), Information Assurance & Cybersecurity (310), Database Administration (498), Client Side Development (IP)
  - **Relevant Computer Science Coursework:** Data Structures and Algorithms (373), Database Systems (414), Machine Learning (416), Linux and C Programming (374)
  - **Awards:** Informatics Hackathon (2<sup>nd</sup> place), INFO 200 project fair (Best Implemented)

## Experience

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- **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

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- **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.
- **Genius.com Lyric Analysis:** Built a tool that builds and maintains a SQLite database from making API calls and web scraping genius.com. Is able to plot changes in lyric use over time using pandas and the Bokeh plotting library.
- **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.
- **Distributed Data Warehousing:** Developed a solution that sourced data from multiple flat files into a staging database, performed ETL operations to move data to a data warehouse, and automated the process using SSIS.

## Programming Skills

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- **General Purpose Languages:** Built applications at scale with Java and VB.NET, Built memory manager 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