

# JUSTIN ROY GARRARD

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Data specialist with a background in software development and system administration. Currently transitioning from full-time to part-time graduate student.

## TECHNOLOGIES AND LANGUAGES

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<b>Primary Languages</b>	Python, R
<b>Analytics</b>	pandas, sklearn, tidyverse, SQL
<b>Visualization</b>	ggplot, matplotlib, Tableau, D3
<b>Web</b>	Django, Flask, HTML/CSS/JS
<b>Administration</b>	Linux, Ansible, AWS, Azure
<b>Other</b>	Java, C, Arena, Hadoop, NLTK

## EDUCATION

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### Georgia Tech, MS Analytics 2020 – Est. 2021

- Statistical Modeling, Simulation, Machine Learning
- Fundamentals of Business
- Expected Graduation in Winter 2021

### Boise State University, BS Computer Science 2012 – 2017

- Data Structures, Algorithms, Compilers, Microcontrollers
- Minor in Applied Mathematics

## EXPERIENCE

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### Hadoop System Administrator, Sentara Healthcare Jun 2018 – Jun 2020

Started as an entry-level resource, with responsibilities quickly evolving to include leadership of a small team and full control of the platform.

- Managed 50+ Linux servers hosted on the Microsoft Azure Cloud platform
- Coordinated a regular ETL process pulling data from MSSQL and Oracle systems into ADLS and HDFS
- Authored numerous automation scripts using Python, Bash, and Ansible to simplify management
- Self-taught Hadoop, Cloud, and System Administration fundamentals

### DBA Developer, Syntel Inc. Feb 2018 – Jun 2018

### Research Assistant, Boise State University Feb 2017 – May 2017

### Intern, Schweitzer Engineering Laboratories Jan 2016 – Jan 2017

## PROJECTS

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### U.S. Education Dataset Engineering Jul 2019

- A Python ETL pipeline that cleans and unifies 30+ years of data from separate sources
- More than 100,000 views and 10,000 downloads on Kaggle
- Modular design influenced by object oriented design patterns
- Performs schema resolution to address changes in underlying survey structure between years

### Term Frequency Web Scraper Application Mar 2018

- A Django web application that scrapes a job aggregator and visualizes the results
- Leverages NLTK and sklearn to calculate term frequency and TFIDF
- Connects to a PostgreSQL database via sqlalchemy
- Uses self-taught AWS knowledge to host the application on an EC2 instance, as preparation for the Solutions Architect exam