

# Russell Brown

*I am a data scientist seeking to manipulate data, provide useful analysis, and create visualizations. I take pride in acquiring a fundamental understanding of the issues at hand and helping others to achieve the same. I use methodical and data-driven analysis to determine the best course of action in the face of uncertain outcomes.*

## EDUCATION

**University of Maryland**, College Park – 5/21/17 - BS Mathematics

- Object-Oriented Programming
- Statistics
- Actuarial Mathematics

## EXPERIENCE

**Instructional Associate:** April 2018 – Present

- General Assembly, Springfield, VA

Provided teaching support for two of General Assembly's part-time enterprise data science classes. My official duties included assisting students with coursework individually through online and in-person office hours and grading assignments.

**Data Analyst:** September 2017 – Present

- Neurocode, Rockville, MD

I used the Psycogp2 library to write PostgreSQL queries and read data from a multi-million-row data base into Python. I wrote scripts to clean and pre-process data for use in the Scikit-Learn library, and I employed various statistical techniques such as clustering and time series analysis to develop fraud detection models for use in the 2020 US census.

**Professional Poker Player:** August 2015 – Present

**Private Tutor (Math, Physics, Chemistry):** August 2008- May 2013

## TRAINING AND CERTIFICATIONS

**Data Science Immersive Student:** June 2017 – September 2017

- General Assembly, Washington, D.C.

Took a 500-hour full time data science course that was focused on implementing cutting-edge machine learning techniques. Within the context of this course, I built a webscraper and model to predict salary ranges on Indeed.com. I also built a model to predict outbreaks of West Nile Virus in Chicago. For my capstone project, I analyzed home mortgage application data for evidence of redlining.

**Deeplearning.ai, Deep Learning Specialization:** 3/1/2018:

- Neural Network Optimization
- Convolutional Neural Networks
- Sequence Models

**Google Foobar, Level 5:** 10/17/2017

- Creative Coding Challenges

**SoA, Exam FM – Financial Mathematics:** 2/17/2015

- Bond Math, Time Value of Money, Expected Value Calculations

**Society of Actuaries, Exam P - Probability:** 7/17/2014

- Combinatorics and Probability

## **Contact Me:**

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Washington, D.C.

## **Check Out My Website:**

[rnbrown.github.io/rnbrown](https://rnbrown.github.io/rnbrown)

## SKILLS

### **Machine learning:**

Deep Learning, Predictive Modeling, Data Analysis, Natural-Language Processing, Data Wrangling, Statistics

### **Programming Languages:**

Python, R, SAS, SQL, Java, MATLAB, Mathematica, Javascript

### **Libraries & Packages:**

Tensorflow, Keras, Scikit-learn, Nltk, Scipy, Seaborn, Bokeh, Flask, Xgboost, Numpy, Pandas, Statsmodels, Beautifulsoup, Selenium

### **Software and Tools:**

Jupyter notebook, Tableau, Excel, Git, Github, Spyder, Eclipse, UNIX, LaTeX, Google Cloud, Amazon Web Services, Heroku

### **Other:**

Teaching, Public Speaking, Web Scraping, API Handling

### **Languages:**

Mandarin Chinese  
(conversational)