

Calvin Floyd

www.calvinfloyd.com | Sacramento, CA

PROFESSIONAL EXPERIENCE

- Sacramento Kings**, Senior Data Scientist - *Sacramento, CA* **July 2021 - Present**
- Managed multiple ETLs to ensure data from providers came in as accurate and as soon as possible
 - Enforced R package version control to ensure consistent and up-to-date working environments across the department
 - Solidified testing and data validation systems to identify bugs in our code / data as soon as possible
 - Constructed ID mapping system to address the common problem of linking various IDs from multiple sources together
 - Constantly consolidated and trimmed code in repository in an attempt to keep operation lean and manageable
- Sacramento Kings**, Basketball Operations Analyst - *Sacramento, CA* **November 2018 - July 2021**
- Supervised multiple interns and their various projects ranging from research to ETL related processes
 - Built and managed player projection systems involving overall performance, individual skills and market value
 - Supported and maintained daily PDF report creation including pre-game, post-game and player reports
- Sacramento Kings**, Analytics Intern - *Sacramento, CA* **August 2017 - February 2018**
- Assisted in the creation of team database consisting of over 300+ tables, utilizing R and PostgreSQL
 - Built Shiny-based applications which provided the front office with information on player development
 - Created data visualizations with ggplot and plotly, including hexagon-based shot charts and game-flow visualizations
- Bankers Healthcare Group (BHG)**, Marketing Analyst - *Syracuse, NY* **April 2018 - November 2018**
- Built regression models to help predict which customers would be most profitable to market to, using R
 - Utilized Microsoft SQL to perform a majority of the data manipulation, combining hundreds of tables together
- United States Tennis Association**, Data Analyst Intern - *Flushing, NY* **Summer 2016**
- Analyzed large amounts of spatio-temporal player-tracking data using Python (pandas) and MySQL
 - Incorporated regression and decision trees to develop predictive models of the outcomes of individual tennis points

EDUCATION

- Rochester Institute of Technology** - **M.S. Applied and Computational Mathematics** **2015 - 2017**
- State University of New York at Geneseo** - **B.A. Mathematics** **2011 - 2015**

TECHNICAL SKILLS

- R • SQL • AWS • git / GitHub • Python • Linux • docker
- Shiny - tidyverse → PostgreSQL → S3 - EC2 - RDS

PUBLICATIONS

- grobblR**, Comprehensive R Archive Network (CRAN) **September 2021**
- R package aimed at producing PDF reports with various graphics easily in the R environment
 - Uses a Shiny bootstrap-like grid system to combine objects together in the most flexible and intuitive way possible
 - Utilized object oriented programming in order to make the rows and columns of the page well integrated
- Shot-by-Shot Stochastic Modeling of Individual Tennis Points**, JQAS **October 2019**
- Paper using multi-resolution stochastic modeling to predict the win probability at each shot during a point
 - Evaluated the evolution of individual points every 25th of a second for each player in the match
 - Analyzed spatio-temporal tracking data using Python and R, specifically looking at players' locations and tendencies

AWARDS

- Best Young Researchers' Award – 1st Place**, UP-STAT 2017 Conference **April 2017**
- Annual Conference of the Upstate Chapters of the American Statistical Association
 - Application Category - Excellent oral presentation by a student of a compelling application of statistics or data science

RELATED COURSEWORK

- Predictive Analytics**, Rochester Institute of Technology **Spring 2016**
- Principles of Statistical Data Mining**, Rochester Institute of Technology **Fall 2016**
- Numerical Linear Algebra**, Rochester Institute of Technology **Spring 2016**

LEADERSHIP AND OTHER ACTIVITIES

- Men's Varsity Basketball Team**, SUNY Geneseo **2013 – 2014**