

# Calvin Floyd

[calvinfloyd.com](http://calvinfloyd.com) | Syracuse, NY

## PROFESSIONAL EXPERIENCE

- Zelus Analytics**, Data Engineer II - *Remote* **September 2022 - Present**
- Helped build, automate, and deploy quantitative models to professional basketball teams
  - Coordinated multiple releases of new model features and data - balancing needs of several different departments
  - Managed daily delivery jobs of new data to clients via Airflow and Kubernetes
  - Built out raw data pipelines and other generalized sport-agnostic functionality using Python
- Sacramento Kings**, Senior Data Scientist - *Sacramento, CA* **July 2021 - August 2022**
- Managed multiple ETLs to ensure data from providers came in as accurate and as soon as possible
  - Delivered data and other analytical insights to general manager and other upper management on a daily basis
  - 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 errors in our code and data as soon as possible
- 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 automated 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 400+ 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
- 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

## TECHNICAL SKILLS

Python - R - GCP - PostgreSQL - git - Linux - docker - Kubernetes - Airflow - BigQuery - AWS - Terraform

## EDUCATION

<b>Rochester Institute of Technology</b>	<b><i>M.S. Applied and Computational Mathematics</i></b>	<b>2015 - 2017</b>
<b>State University of New York at Geneseo</b>	<b><i>B.A. Mathematics</i></b>	<b>2011 - 2015</b>

## PUBLICATIONS

- grobbr**, Comprehensive R Archive Network (CRAN) **September 2021**
- R package aimed at producing PDF reports with various graphics easily in the R environment
  - Uses a 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 25<sup>th</sup> 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 – 1<sup>st</sup> 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

<b>Predictive Analytics</b> , Rochester Institute of Technology	<b>Spring 2016</b>
<b>Principles of Statistical Data Mining</b> , Rochester Institute of Technology	<b>Fall 2016</b>
<b>Numerical Linear Algebra</b> , Rochester Institute of Technology	<b>Spring 2016</b>

## LEADERSHIP AND OTHER ACTIVITIES

<b>Men's Varsity Basketball Team</b> , SUNY Geneseo	<b>2013 – 2014</b>
<b>Head High School Basketball Coach</b> , East Irondequoit High School	<b>2016 – 2017</b>

Last updated October 2023