

# Connor S. Reed

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EDUCATION	McGill University	2010 - 2015
	Montreal, Quebec, Canada	
	Physical Geography Major with Mathematics/Statistics Minor	
	University of California, Santa Cruz	2009 - 2010
	Santa Cruz, CA	
	High School Scholars Program	
	Cabrillo College	2007 - 2010
	Aptos, CA	
	Concurrent enrollment during high school	
SAMPLE COURSEWORK	<ul style="list-style-type: none"><li>• Principles of Statistics 1 &amp; 2, Statistics, Probability, Statistics of Gambling and Gaming, Linear Algebra 1 &amp; 2, Calculus 1, 2, &amp; 3, Topics in Geometry, Discrete Structures, Mathematical Finance, Foundations of Programming, Introduction to Computer Science, Introductory GIS, Raster GIS, Socioeconomic Applications of GIS</li></ul>	
TECHNICAL SKILLS	<ul style="list-style-type: none"><li>• MS Office (advanced ability in MS Excel), ArcGIS, Adobe Photoshop</li><li>• <b>Statistical Programming Environments:</b> Python, basic ability in R and Mathematica</li><li>• <b>Other Programming Languages:</b> SQL (primarily MySQL), L<sup>A</sup>T<sub>E</sub>X, Bash, Git</li><li>• <b>Specific Abilities:</b> Web Scraping, Data Mining, Data Cleaning, Predictive Modeling, Data Visualization, Regression Analysis, Sports Analytics (MLB, NHL, NBA)</li></ul>	
RELEVANT WORK EXPERIENCE	<i>Sports Data Scientist (specializing in MLB and NHL)</i>	2015 - 2018
	Mdalury LLC	
	<ul style="list-style-type: none"><li>- We use statistics, data programming, SQL database architecture, and domain specific knowledge to develop a set of proprietary data, models, and tools primarily focused on Daily Fantasy Sports.</li><li>- My role is broadly focused around researching metrics to add to our models by combining domain knowledge and testing methods to create and analyze potential features for our predictive models, implementing these features into existing models, visualizing various metrics or results or the models, and writing scripts to update and maintain our databases.</li><li>- From the time I was hired (July 2015), we held a robust record of success, including being consistently ranked as a Top 5 player in my focus areas (MLB and NHL) as well as being the overall #1 ranked player for 2016 and 2017, all according to <a href="https://roto.grinders.com">RotoGrinders.com</a>.</li></ul>	
	<i>Co-creator - xGoals shot quality project</i>	2014 - 2016
	FourthLineHeroes	
	<ul style="list-style-type: none"><li>- Developed shot quality metrics for NHL hockey to approximate the caliber of possession.</li><li>- Developed metrics to measure goalie performance based on the quality of shots faced.</li><li>- Abstract accepted to 2016 Sloan Sports Conference; full manuscript available upon request.</li><li>- A full display of metrics and further explanation is available at <a href="http://fourthlineheroes.com/">http://fourthlineheroes.com/</a></li></ul>	
	<i>Basketball Analytics Intern</i>	May 2014 - August 2014
	Golden State Warriors, Oakland, CA	
	<ul style="list-style-type: none"><li>- Structured, developed, and populated draft dataset for the 2014 NBADL draft.</li></ul>	
	<i>Front Office and Game Day Assistant</i>	Winters 2014, 2015
	Santa Cruz Warriors, Santa Cruz, CA	
	<ul style="list-style-type: none"><li>- Assisted with the stats team and occasionally served as official scorer at scorers table.</li><li>- Assisted with daily work in the front office during the 2015 NBA D-League Showcase.</li></ul>	

## OTHER WORK EXPERIENCE

- Data Manager* Summer 2013  
LK Educational Consulting, Santa Cruz, CA  
- Researched and updated Excel spreadsheets, organized reference materials.
- Science Technician/Intern* Summer 2012  
Kinnetic Laboratories, Inc., Santa Cruz, CA  
- Analyzed water runoff data to identify storm events.  
- Charted chemical content in runoff water during storm events to measure water quality.
- Rock Climbing Assistant* Summers 2010-11  
Pacific Edge Climbing Gym, Santa Cruz, CA  
- Set up safety gear, belayed children, and gave basic instruction.
- Catering Assistant* Summer 2011  
Feast For a King Catering, Santa Cruz, CA  
- Assisted with set-up, serving, and support for catered events.
- Rock Climbing Assistant* Summers 2009-10  
Gateway Mountain Center, Lake Tahoe, CA (volunteer)  
- Demonstrated climbing techniques/routes, belayed climbers, assisted with set-up and logistics for Donner Summit Rock Climbing Camp.
- Center Referee and Assistant Referee* 2005 - 2010  
Scotts Valley/San Lorenzo, Santa Cruz, and Excel Soccer Clubs, Santa Cruz, CA  
- Certified U.S. Soccer Grade 8 Referee.

## OUTSIDE INTERESTS

- **Rock Climbing** – I have been rock climbing since 2008 and enjoy climbing in a variety of areas both domestically and internationally.
- **Simulation Baseball** – Since 2008 I have played in Diamond Mind Baseball (DMB) simulation baseball leagues and enjoy using these leagues for honing my technical skills and practicing decision theory.
- **NBA Shot Charts** – Mostly as an exercise to improve my data visualization I wrote a python script that could plot NBA shot charts. Then, as an exercise to utilize an automated posting system I wrote a python Twitter bot that tweets pseudo-random charts under the handle **@NBAShootingBot**.
- **Recreational Team Sports** – Team sports have always been a big part of my life. I primarily played competitive baseball and soccer in my earlier years, but shifted to more recreational intramural sports in college, and have continued to play these sports recreationally after graduating.
- **Cats** – I love most animals, but I feel most strongly about cats. My cats are always fun to be around and do a great job cheering me up if I am in a bad mood.

## REFERENCES

Available upon request (I want to respect my references' privacy and not release their information on my public resume)