

# Sean Cooke, MS

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GitHub: <https://github.com/SeanCooke>

## SKILLS

- Experienced full-stack software engineer focused on machine learning
- Highly qualified with Python, PHP, Java, C/C++, Bash, Hadoop, MapReduce, Spark, and SQL
- Skilled in Machine Learning, Distributed Systems, NoSQL, R, XML, HTML, JavaScript, and CSS
- Talented with design and efficient implementation of algorithms and data structures
- Swiss-army knife programmer who thrives working with latest technologies
- Passion for creating practical, scalable, data-driven solutions to complex, real-world issues

## EXPERIENCE

**University of Rochester Medical Center**, Rochester, NY

June 2014-Present

*Software Engineer*

- Designed, implemented, and support <https://urattendance.urmc.rochester.edu>, an attendance tracking website for medical residents and fellows; allows physicians more time with patients; reduces administrative time by 2 hours per meeting
- Create web-based reports leveraging secure, clinical trial (HIPPA) data to steer decisions
- Member of small team utilizing an Agile Scrum methodology with heavy focus on documentation
- 2017 Meliora Award nominee for years of outstanding service and organizational contributions; highest honor awarded to staff members; 5 time Strong Star recipient for outstanding software engineering

**KrowdFile**, New York, NY

December 2013-June 2014

*Senior Software Engineer*

- Quantified how 'good' a freelancer is by mathematically determining and implementing KrowdScore, a numerical value between 1 and 100 aggregated from ratings across many freelancing websites

## PROJECTS

**The Effect of High Salaries on MLB Players**

<http://www.sean-cooke.com/docs/mlb-salaries.pdf>

- A comparative study using classification and clustering to conclude MLB players do not perform significantly better after receiving a 'big money' salary and new contracts reflect past performances rather than expected future performance

**tweetcloud**

<https://github.com/SeanCooke/tweetcloud>

- Twitter word cloud generator which creates beautiful, colorful tweet visualizations for a given user

## EDUCATION

**University of Rochester**, Rochester, NY

August 2015-May 2017

- Master of Science in Computer Science; GPA: 3.46

**SUNY Geneseo**, Geneseo, NY

January 2011-May 2014

- Bachelor of Arts in Mathematics, Minor in Computer Science; Dean's List Spring 2014
- Geneseo Recognizing Excellence, Achievement, and Talent (GREAT) Day Mathematics Lecturer