Sean Cooke, MS

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SKILLS

- Experienced full-stack software engineer focused on machine learning
- Highly qualified with Java, Python, scikit-learn, SQL, NoSQL, Linux, Hadoop, Spark, R, and JavaScript
- Skilled in Machine Learning, Multithreading, Natural Language Parsing, Cloud, and Big Data
- Talented with design and efficient implementation of algorithms and data structures
- Passionate about creating practical, scalable, data-driven solutions to complex, real-world issues

EXPERIENCE

University of Rochester Medical Center, Rochester, NY   June 2014-Present
Software Engineer
- Design, implement, 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 (HIPAA) data to steer decisions
- Utilize Agile Scrum methodology with heavy focus on documentation as member of small team
- Nominated for 2017 Meliora Award for years of outstanding organizational contributions (highest honor awarded to staff members); Received Strong Star Award 5 times 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

Multithreaded Linear Equation Solver   http://www.sean-cooke.com/docs/multithreading.pdf
- An exploration of various shared-memory parallelizations of a Gauss-Jordan linear equation solver

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

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
- Geneseo Opportunities for Leadership Development (GOLD) Program Certified