Data Scientist – Performance Profiling

**Working at Amazon Robotics**
Are you inspired by invention? Is problem solving through teamwork in your DNA? Do you like the idea of seeing how your work impacts the bigger picture? Answer yes to any of these and you’ll fit right in here at Amazon Robotics. We are a smart team of doers that work passionately to apply cutting edge advances in robotics and software to solve real-world challenges that will transform our customers’ experiences in ways we can’t even image yet. We invent new improvements every day. We are Amazon Robotics and we will give you the tools and support you need to invent with us in ways that are rewarding, fulfilling and fun.

**Job Overview**
The Amazon Robotics (AR) Virtual Systems Profiling team builds models, runs simulation experiments and delivers analyses that are central to understanding performance of the entire AR system, e.g. operational and software scaling characteristics, bottlenecks, robustness to “chaos monkey” stresses -- we inform critical engineering and business decisions about Amazon’s approach to robotic fulfillment. We seek a talented and motivated engineer to tackle broad challenges in system-level analysis. You will work in a small team to quantify system performance at scale and to expand the breadth and depth of our analysis (e.g. increase the range of software components and warehouse processes covered by our models, develop our library of key performance indicators, construct experiments that efficiently root cause emergent behaviors). You will engage with growing teams of software development and warehouse design engineers to drive evolution of the AR system and of the simulation engine that supports our work.

**Basic Qualifications**
- Masters degree in Data Science, Statistics, Operations Research, or in highly quantitative field (e.g. Computer Science, Operations Research, Systems Engineering, Physics), or equivalent experience
- 2+ years of industry experience in predictive modeling, data science and analysis
- Programming experience in Python, R or equivalent
- Demonstrated experience in data science and data analysis
- Desire to pursue challenging questions through extensive operational and data analysis (experience to do data analysis, regression analysis)
- Demonstrated outstanding written and verbal communication skills
- Experience giving data presentations with graphical or data visualization tools

**Preferred Qualifications**
- Relevant experience in one of the following areas: Data engineering, database engineering, business intelligence or business analytics
- Experience working with AWS Big Data Technologies (EMR, Redshift, S3)
- Proven track record of delivering a big data solution
- Experience working with both Batch and Real Time data processing systems
• Proven success in communicating with users, other technical teams, and senior management to collect requirements, describe data modeling decisions and data engineering strategy
• Experience providing technical leadership and mentoring other engineers for best practices on data engineering
• Knowledge of software coding practices across the development lifecycle, including agile methodologies, coding standards, code reviews, source management, build processes, testing, and operations
• Experience with JavaScript or supporting similar web platform

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