

# Jared Preston Daniels

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**Portfolio** <https://jaredpd.github.io/projects/>

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*Mathematician and computer professional with a love for learning, appetite for knowledge and unrelenting desire to solve problems. Known for deciphering complex ideas and applying them to real life situations. Passionate about learning new technology, algorithms, and methodologies and applying them to solve problems through data analytic and machine learning techniques. Seeking opportunity to combine my expertise and abilities to advance in a career as part of a team in data science or related field.*

**Proficient in:** All forms of mathematics, programming (Python, R, VBA, SQL, C++, Octave), version control (GitHub), data analysis, machine learning (regression, decision trees, clustering, neural networks, SVMs) built from scratch and using software packages (Scikit-learn, Pandas, Tensorflow, NLTK, Keras, Numpy), computer hardware (building, upgrading and repairing), software (including RStudio, Hadoop, Matlab, Anaconda), and independent study.

## Education

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<b>Johns Hopkins University</b> <i>Master of Science: Data Science</i>	In Progress
<b>University of Connecticut, Storrs</b> <i>Master of Science: Applied Mathematics</i> Completed 90 percent of course work and 3 of 4 qualifying exams toward a Doctorate in Philosophy.	GPA: 3.73/4.00
<b>University of Massachusetts, Amherst</b> <i>Bachelor of Science: Applied Mathematics</i>	GPA: 3.63/4.00.

## Work History

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<b>2014-Current</b>	<b>Manager/Supervisor</b> <i>Hall Karts Inc. dba Bud's Go-Karts</i> <ul style="list-style-type: none"><li>Daily scheduling and personnel management of iconic 60-year old recreational business.</li><li>Met state required training and testing to qualify as Certified Amusement Maintenance Mechanic.</li><li>Brought business up to state code, improving and upgrading mechanical and safety functions.</li><li>Modified tracking forms to satisfy state requirements while reducing paperwork by a factor of 15.</li></ul>
<b>2014-Current</b>	<b>Manager/Consultant</b> <i>Windsong Antiques Inc.</i> <ul style="list-style-type: none"><li>Set up and maintains computer systems and network that improved ease of accounting and online sales.</li><li>Managing online and retail sales, doubling online revenue after the first month.</li><li>Developed program in Excel using VBA that automated inventory tracking and accounting saving 2-4 hours per week.</li></ul>
<b>2010-2014</b>	<b>Graduate Teaching Assistant</b> <i>University of Connecticut, Storrs</i> <ul style="list-style-type: none"><li>In first semester as a graduate student, was given a Pre-Calculus book and two classes of 30 students and tasked with designing and teaching a course independently.</li><li>Designed entire course from the ground up, including lectures, assignments, tests, and syllabus, transforming the textbook into a more approachable and stimulating way to learn.</li><li>Taught 2-6 classes per semester. From independently teaching courses in Pre-Calculus and Calculus 3, to discussion sessions in Math for Business and Economics, Calculus 1, and Calculus 2.</li><li>Held weekly office hours and provided tutoring for struggling students, which improved their grades and gave them confidence to interact more in the classroom.</li><li>Graded homework and tests and discovered metrics, then applied them to improve the students' ability to know the subject matter.</li><li>Received glowing end-of-semester evaluations from students.</li></ul>

## Independent Study

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<b>Online Courses</b> <ul style="list-style-type: none"><li>Certificate from Stanford Online via Coursera for Machine Learning with Instructor Andrew Ng.</li><li>Udemy courses in Python, Data Science and Machine Learning, and Big Data with Hadoop.</li><li>In addition to the enrollment in the master's program at Johns Hopkins, independently taking the Data Science series (using R) on Coursera by Johns Hopkins.</li></ul>
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