Jared Preston Daniels

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Mathematician and computer professional with a love for learning, appetence for knowledge and unrelenting desire to solve problems. Known for deciphering complex ideas and applying them to real life solutions. Passionate about taking raw data and transforming it into actionable information, predictive models, and neural networks. 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 (pure, applied numerical, probability, etc.), programming (Python, VBA, SQL, C++, Octave), 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 Matlab, Anaconda, Jupyter Notebook), and independent study.

Education

Master of Science: Applied Mathematics   GPA: 3.73/4.00
University of Connecticut, Storrs
Completed 90 percent of course work and 3 of 4
qualifying exams toward a Doctorate in Philosophy.

Bachelor of Science: Applied Mathematics   GPA: 3.63/4.00.
University of Massachusetts, Amherst

Work History

2014-Current   **Manager/Supervisor**

Hall Karts Inc. dba Bud's Go-Karts
- Daily scheduling and personnel management of iconic 60-year old recreational business.
- Met State required training and testing to qualify as Certified Amusement Maintenance Mechanic.
- Brought business up to State code, improving and upgrading mechanical and safety functions.
- Modified tracking forms to satisfy State requirements while reducing paperwork by a factor of 15.

2014-Current   **Manager/Consultant**

Windsong Antiques Inc.
- Set up and maintains computer systems and network that improved ease of accounting and online sales.
- Managing online and retail sales, doubling online revenue after the first month.
- Developed program in Excel using VBA that automated inventory tracking and accounting saving 2-4 hours per week.

2010-2014   **Graduate Teaching Assistant**

University of Connecticut, Storrs
- 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.
- 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.
- 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.
- Held weekly office hours and provided tutoring for struggling students, which improved their grades and gave them confidence to interact more in the classroom.
- Graded homework and tests and discovered metrics, then applied them to improve the students' ability to know the subject matter.
- Received glowing end-of-semester evaluations from students.

Independent Study

Online Courses
- Certificate from Stanford Online via Coursera for Machine Learning with Instructor Andrew Ng.
- Udemy courses in Python, Data Science and Machine Learning. Projects from this course and onward on my website (https://jaredpd.github.io/projects/).
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SOA Actuary Exams Passed
- P/1 Probability and Fm/2 Financial Mathematics