Data Scientist

Wayfair believes everyone should live in a home they love. Through technology and innovation, Wayfair makes it possible for customers to quickly and easily find exactly what they want from furnishings, décor, home improvement, housewares and more.

We are always looking for imaginative, analytical, and adaptable people to join our home team. You’ll find a dynamic atmosphere where learning and growth opportunities are abundant, and hard work and results are rewarded. We’re a diverse community of innovators, risk-takers, and trailblazers who know that our unique perspectives make us stronger, smarter, and well-positioned for success. Every voice, every perspective matters. We are proud to be an equal opportunity employer.

At Wayfair, you can explore your potential outside of the classroom and take the lead on high-impact projects. You’ll find autonomy, mentorship, and development opportunities in an open and collaborative environment. If you’re looking for a challenging and fulfilling career, make yourself at home.

Wayfair generated $5.7 billion in net revenue for the twelve months ended June 30, 2018. Headquartered in Boston, Massachusetts with operations throughout North America and Europe, the company employs more than 9,700 people.

THE OPPORTUNITY

Wayfair is seeking energetic, curious and action-oriented Undergraduate, Master’s, and PhD students with an interest in a career in Data Science. Our current team members have a diverse skill sets across economics, quantitative sciences, math and engineering. They are dedicated to solving some of the most analytically challenging problems here at Wayfair.

Wayfair hires Data Scientists into two core business areas. Team placement is determined through the application and interview process and is dependent on a combination of interest, skills and experience, and growth potential. When applying, please indicate your top choices for area of interest (in order of preference). If we notice a stronger alignment for a team other than those indicated in the application, we will also consider you for that opportunity.

Functional areas and potential team placements include:

MACHINE LEARNING SCIENTIST

As a Machine Learning Scientist you will work in one of the following areas:

**Personalization** builds sophisticated platforms designed to personalize customer experience to millions of unique shoppers across site and email. This includes working on different types of recommendations engines, as well as algorithms that machine-learn complex shopping behavior. The goal is to be intelligent and automated in making the experience more relevant for every user.

**Marketing** builds the framework and algorithms that help guide Wayfair’s $250M+ annual marketing investment. The work touches all marketing channels (TV, catalog and digital) and aims to improve our ability to measure marketing impact, improve our customer targeting and optimize our investments across millions of marketing campaigns.
Operations builds data-driven solutions to support Wayfair operations teams, including Merchandising Operations, B2B, Supplier Performance, and Customer Service. The big goals are to enhance Wayfair’s behind-the-scenes operational capabilities through rigorous use of algorithms and analysis.

PRICING ALGORITHMS

The Algorithms group is a group of data scientists who design centralized systems to operate key business levers in e-commerce. These include global strategic management of dynamic pricing and sort recommendation algorithms, which are responsible for controlling the levels of consideration and exposure over millions of products worldwide. Day-to-day, Algorithms collaborates closely with business stakeholders to formulate these problems and mine terabytes of data to unearth deep insights that anchor the principles behind our solutions.

As the largest and fastest growing e-commerce technology company in the home space, Wayfair interacts with a large volume of product data, user data and order data. This makes predictive analytics solutions critical to managing prices and providing core business solutions. The Algorithms Unit develops solutions that affect billions of dollars in revenue and has end-to-end responsibilities for projects. These include data exploration, model selection, optimizing fit, running machine learning algorithms at scale and iterating with experiments for long-term improvement.

No matter the track that you take you will have the opportunity to play a critical role in the company while also operating with a high level of executive visibility. Each division is focused on creating strategic solutions that steer customer behavior, influence key decision making and quantify our impact within the e-commerce space. Our diverse and fun teams enjoy an environment of strong ownership and quick feedback from building, experimenting and iterating on high-impact work.

QUALIFICATIONS

- Currently enrolled in an undergraduate, Master’s, or PhD degree program at a top-tier institution with a strong academic track record.
- Currently obtaining a Degree focused within either Statistics, Economics, Mathematics, Computer Science or other major with a heavy quantitative concentration.
- An affinity for data along with experience leveraging statistics and regression analysis is a plus.
- Experience with or an interest and ability to quickly learn SQL and Hadoop.
- Experience with or interest and ability to quickly pick-up programming skills relevant to data science such as Python and R.
- Quick learner with an analytical approach to solving problems who has good communication skills.
- Must be a hard worker who enjoys solving challenging problems in a fast-paced environment.