Title: Methodologist (Research & Algorithms)

Company Description

United Income is a new software company in Washington D.C. that provides financial planning, investment management, and everyday budgeting to retail consumers, with a focus on households that are approaching, transitioning, or in retirement. This aging population in the U.S. now owns 80 percent of the $23T retail investable assets and 70 percent of the consumer buying power but has broad financial needs that are unaddressed or poorly addressed by financial service incumbents. To better serve this population, we used new technology and data to build the first unified system of money management that finds alpha for consumers by simultaneously optimizing investment, spending, and benefit decisions. Our approach to money management reflects a deeply held belief that financial decisions are interconnected, and new data and technology allow us to observe and understand these relationships in new ways. We translate that unique understanding of how the world works into more holistic, highly personalized money management for our members.

United Income was founded by Matt Fellowes, founder of HelloWallet, former Chief Innovation Officer of Morningstar, and Fellow at The Brookings Institution. He realized that the way we manage money as we age has not kept pace with changes in technology, lifestyles, and life expectancy, which has increased by 30 years since 1900. To address this need, Matt assembled a team at Morningstar in 2016 that includes core leaders from HelloWallet, a financial guidance company Matt founded and sold to Morningstar in 2014 for $52.5M. After the initial incubation, he spun the group out as an independent company and to date has secured $11.5M investment from Morningstar, Pierre Omidyar’s family office, and others.

Job Description

Join a methodology team working on a financial planning & investment management online application. The ideal candidate is proficient with mathematical modeling and algorithm development, has a knack for real-world problem solving, loves finding edge cases in solutions, and enjoys learning new things including public policy. Big plus if you also enjoy working with data sets and developing predictive models using statistical methods. You will work with the VP of Research & Algorithm Development on developing, testing and innovating on the methodology and algorithms used in the product, and help bring the solutions to life.

Roles and Responsibilities

- Conduct mathematical and predictive modelling using statistical methods such as multivariate regression analysis and hazard models.
- Assist with the development of the methodology and algorithms to support new product features.
- Code models and algorithms created by the methodology team to be used in testing and research using R / Python or similar programming language.
• Assist with the QC of the mathematical models in the application to ensure that they meet mathematical and algorithmic spec, and that edge cases are handled correctly.

**Background Requirements**

• Graduate degree in scientific field preferably in Mathematics, Computer Science, Quantitative Finance, Statistics or Economics.
• Coding experience using Python, R or Matlab.
• Experience with Monte Carlo Simulation methods, Finance and Investment modeling.
• Knowledge of combinatorial optimization methods, computational complexity, polynomial-time algorithms and linear programming.