



## **Senior Software Engineer (Machine Learning) – Dynamic Creative Optimization Team**

London, United Kingdom

Quantcast is an organization that lives and breathes data. Data is used in every aspect of our business, driving everything from our audience measurement service, to our real time bidding and ad personalization, and even corporate operations. We are looking for top-tier talent to design, implement, and operate large scale ML systems in a production environment. You'll work within a machine learning group that is obsessed with improving the state of the art in performance advertising. You'll take full ownership of the development and operation of ML systems that span dynamic ad personalization, predictive modeling, recommendations, bid optimization and pacing - all operating on a global scale. You'll have the opportunity to work with our real-time systems that process over 2 million events per second, a distributed compute cluster that processes 30 petabytes of data per day, and a training pipeline that builds tens of thousands of models daily.

### **Opportunities**

- **Make an impact.** Quantcast performs world-class data modeling and engineering of realtime systems with a relatively small engineering team. Data science is the backbone of Quantcast; your impact will be much greater here than at a large company.
- **Thrive in a full Big Data ecosystem.** Quantcast has invested heavily in its compute infrastructure and has vast amounts of data to aid in decisioning. Almost the entire

platform has been built or extended in-house, to achieve our rigorous computational needs, with many systems returned to the open source community.

- Make a name for yourself. We publicize our work through open-source projects, blog posts and papers, and we work with amazing advisors, like Trevor Hastie and Jerome Friedman.
- Great timing. We are a fast growing pre-IPO technocracy.

### Responsibilities

- Design, build and operate large scale machine learning algorithms, systems, and supporting infrastructure
- Develop techniques to efficiently extract meaning from petabytes of data
- Improve existing advertising products and introduce new end-to-end products to delight our customers
- Interface with other teams and leaders in Engineering, Product Management, and Business Operations

### Requirements

- M.S. or Ph.D in Computer Science or a related engineering field
- Expertise in one or more of the following areas (e.g. classification, optimization, clustering, control theory, recommendation systems)
- Proven ability to translate business and commercial needs into technical solutions
- Demonstrated fluency as a software engineer in Java, C++ or similar, with an understanding of system performance, scalability and reliability for complex production-grade online and offline applications
- Experience building complex machine learning models over large datasets, especially in the advertising or behavioral targeting sectors
- Proficient in using data mining tools such as MapReduce, R, SQL, MatLab, etc.

## About Quantcast

Quantcast helps create a more personalized digital world. We have built one of the world's most sophisticated data-intelligence platforms, utilizing big data and machine learning to solve the biggest challenges in marketing and create more rewarding experiences across the digital landscape. Publishers use our insights to better understand audiences and how content resonates with consumers they want to attract and retain. Marketers utilize our understanding of online behavior and our predictive advertising capabilities to reach the customers likeliest to engage with their messages. Consumers see the results of our work in relevant stories and advertisements that create a personalized experience across all of their devices.