Anti-Abuse Engineer, Product Quality Operations

Company overview:
Google is not a conventional company, and we don't intend to become one. True, we share attributes with the world's most successful organizations – a focus on innovation and smart business practices comes to mind – but even as we continue to grow, we're committed to retaining a small-company feel. At Google, we know that every employee has something important to say, and that every employee is integral to our success. We provide individually-tailored compensation packages that can be comprised of competitive salary, bonus, and equity components, along with the opportunity to earn further financial bonuses and rewards. Googlers thrive in small, focused teams and high-energy environments, believe in the ability of technology to change the world, and are as passionate about their lives as they are about their work. For more information, visit www.google.com/careers.

Area:
At Google we work hard to earn our users' trust every day. Gaining and retaining this trust is critically important to Google's success. We defend Google's integrity by fighting spam, fraud and abuse, and develop and communicate state-of-the-art product policies. The PQO team reduces risk and protects the experience of our users and business partners in more than 40 languages and across Google's expanding base of products. We work with a variety of teams from Engineering to Legal, Public Policy and Sales Engineering to set policies and combat fraud and abuse in a scalable way, often with an eye to finding industry wide solutions. PQO team members are motivated to find innovative solutions, and use technical know-how, user insights and proactive communication to pursue the highest possible quality and safety standards for users across Google products.

Role:
Google engineers don't simply build our consumer-facing products, they also work to protect the users of those products.As an Anti-Abuse Engineer, you will build and support the infrastructure of abuse fighting tools to enable a scalable operations organisation. You will work with product and engineering teams to develop innovative solutions that improve abuse, spam, and fraud fighting infrastructure; learn from decisions made by the operations teams to identify abuse trends, and improve systems for large scale data processing and data mining, through machine learning and clustering of problems.

You'll have the opportunity to work on challenging projects including web applications (client and server-side) and data-processing backends, with a strong emphasis on building scalable server-side components using Google technologies.

If you are passionate about developing systems to prevent spam and abuse at Google scale, this is a great role for you. Your work will help maintain the reputation of Google's products and make the Internet a better place for everyone.

Responsibilities:

- Work on tasks that are part of a single-system project and/or small to medium-size projects of moderate complexity and impact
- Design, develop, test, support and enhance web applications and backend systems
- Build systems to process large datasets in parallel on massive clusters
- Collaborate with product and engineering partners to enhance and integrate core abuse-fighting platforms
- Collaborate with operations analysts to detect and prevent spam, fraud and abuse trends, and advocate changes to protect Google's customers and users
- Increase efficiency through automation, workflow streamlining, and system optimization by working with analyst teams
- Write and review technical documents (including design, development, and revision)

Minimum qualifications:

- BS (equivalent) or relevant experience in CS, statistics, or related technical field (preferably with emphasis on coursework of a quantitative nature)
- Strong programming ability in one or more of the following languages: C, C++, Java, JavaScript or Python; solid understanding of web technologies, programming paradigms, and algorithms
- Able to design, implement, test, and maintain subsystems

Preferred qualifications:

- BS degree with industry experience; OR MS in Computer Science or related technical field
- Experience in numerical analysis, algorithms and/or data-mining
- Knowledge of database design and other data storage solutions
- Experience working in UNIX/Linux environments and/or cloud technologies such as AppEngine, AWS, Hadoop, etc.
- Able to identify relationships between parts of projects
- Strong ability to communicate technical concepts clearly and effectively