

Data Engineering

Positions are available in all regions: Americas, Europe and Asia Pacific

When BlackRock was started in 1988, its founders envisioned a company that combined the best of financial services with cutting-edge technology. They imagined a business that would provide financial services to clients as well as technology services to other financial firms. The result of their vision is Aladdin, our industry-leading, end-to-end investment management platform. Our technology empowers millions of investors to save for retirement, pay for college, buy a home and improve their financial well-being.

Our business contains two teams:

Data Operations Engineering

Data is at the heart of Aladdin, and increasingly, the ability to consume, store, analyze and gain insight from data has become a key component of our competitive advantage. The DOE team is responsible for the data ecosystem within BlackRock. Our goal is to build and maintain a leading-edge data platform that provides highly available, consistent data of the highest quality for all users of the platform, notably investors, operations teams and data scientists. We focus on evolving our platform to deliver exponential scale to the firm, powering the future growth of Aladdin.

AI Labs

Software engineers at BlackRock get to experience working at one of the most recognized financial companies in the world while being part of a software development team responsible for next-generation technologies and solutions. Our engineers design and build large-scale data storage, computation and distribution systems. They partner with data and analytics experts to deliver high-quality analytical and derived data to our consumers.

Our business is known for:

Software engineers who like to innovate and seek complex problems. We recognize that strength comes from diversity and will embrace your unique skills, curiosity, drive and passion while giving you the opportunity to grow technically and as an individual. We are committed to open source, and we regularly give our work back to the community. Engineers looking to work in the areas of data pipelines, discovery, storage, distribution, distributed computation, consumption and infrastructure are ideal candidates.

Our team partners with:

- **Internally:** Data Operations, Aladdin Product Groups and BlackRock Solutions to solve challenges for our clients' using data.
- **Externally:** We solve challenges for clients directly when they need data solutions and products.

Data Engineering

What will you do as an Analyst?

- Developers are expected to be involved from inception of projects, understand requirements, architect, develop, deploy and maintain applications. Typically, they work in a multi-disciplinary squad (we follow Agile!), which involves partnering with program and product managers to expand product offering based on business demands. Design is an iterative process, whether for UX, services or infrastructure. Our goal is to drive user engagement and adoption of the platform while constantly working towards modernizing and improving platform performance and scalability.
- Deployment and maintenance require close interaction with various teams. This requires maintaining a positive and collaborative working relationship with teams within DOE as well as with wider Aladdin developer community. Production support for applications is usually required for issues that cannot be resolved by operations team. Creative and inventive problem-solving skills for reduced turnaround times are highly valued.
- Preparing user documentation to maintain both development and operations continuity is integral to the role. Adhering to BlackRock's UX and design standards is expected and contributing towards upkeep of those standards is encouraged.

What capabilities are we looking for?

- Creativity and resourcefulness to problem-solve independently
- Curiosity and drive to learn new things and build new solutions
- Excellent communication skills, time management, organization and attention to detail
- Knowledge and experience adhering to software development lifecycle best practices, including test-driven development, unit testing discipline, agile development and CI/CD strategies
- Python, Golang or Java programming experience
- Experience with cloud technologies (e.g., Kubernetes, Docker, OpenStack, Kafka) is a plus
- Experience with modern web technologies, frameworks and languages (e.g., TypeScript, Angular, RxJS (reactive programming)) is a plus
- Understanding of object-oriented design pattern knowledge and implementation experience using one or more object-oriented languages (e.g., Java, C/C++)
- Strong understanding of data modelling techniques
- Passion for engineering, performant systems, designing and delivering a great overall UX
- Desire to expand knowledge of building and deploying distributed systems
- Desire to expand developing skills and knowledge of relational databases (e.g., MySQL, Sybase) and NoSQL distributed storage technologies (e.g., Cassandra, HBase)