

## **Job Description**

Position: Senior Data Architect

### **Responsibilities:**

The successful candidate for the position of Senior Data Architect will be responsible for the design and implementation of database and computational systems, including requirements analysis, data modeling, database architecture, software architecture, module design, and development with a focus on AI and performance. The SDA will join an interdisciplinary team of software engineers, computational biologists, bioinformatics analysts, laboratory scientists and management executives who are working together to develop new methodologies to rapidly and accurately identify new genotypic and phenotypic factors that may lead to disease, and to provide best-in-class tech-enabled services for pharmaceutical and other healthcare & life sciences customers so that those customers may develop better options for disease diagnosis and/or treatment. The SDA will be expected to maintain a high level of professional standards in analysis, development coding to support the various initiatives and activities of the organization. The successful candidate will have a demonstrated ability to work in a fast paced, high quality environment with a focus on delivery of high speed and high availability systems and solutions.

### **Requirements:**

Masters degree in the Computer Sciences or other related discipline or equivalent experience.

6+ years experience with software systems design, database architecture, large scale databases (multi TB minimum), data throughput analysis, hotspot analysis and resolution, virtualization technologies, graph, document and relational datastores.

8+ years experience with software programming in Windows and Linux environments;

Must have demonstrated mastery of three or more of several programming languages, libraries, components and applications: C#, C++, Python, F#, and Java.

Must have demonstrated experience with IIS, Apache, Cassandra, SQL, MySQL, and Neo4j.

Experience with Grakn.AI or other hypergraph databases is also a plus;

Must have experience with design and development of AI using two or more of current libraries: TensorFlow, CNTK, direct CUDA, PyTorch.

Experience using Github and other repositories;

Relevant experience or formal training in computational biology a big plus

Demonstrated capability as a creative problem-solver, detail-oriented, self-motivated, and able to work independently as well as within cross-functional teams.