

Senior Software Engineer

Location: **Boston, MA**

Description

Netrias is a fast-growing Artificial Intelligence (AI) company that specializes in boosting expert's performance with machines. We are at the forefront in applying AI in cybersecurity, the life sciences, and healthcare to better protect our national infrastructure, and to more rapidly generate breakthroughs for the treatment of ailments such as cancer and rare neurodegenerative diseases. Netrias' mission is to make Precision Medicine a tangible reality through the precise application of AI.

Netrias is committed to creating a diverse environment and is proud to be an equal opportunity employer. Netrias recruits, employs, trains, compensates and promotes regardless of race, religion, color, national origin, sex, disability, age, veteran status, and other protected status as required by applicable law.

Job Summary

Netrias is working on a novel database technology to support the creation and processing of large datasets in the life sciences using AI techniques. We are seeking a talented Senior Software Engineer to contribute to the development of this technology. Growth is available across the design, build, test, and implementation aspects of the software development life cycle. Qualified candidates will:

- Work closely with a lead developer to design, develop, and implement a server-side database indexing and aggregation technology.
- Develop a custom, domain-specific query language to support user interaction with the backend.

- Perform requirements analysis, system architecture design, code quality reviews, and configuration management controls
- Research and apply best-of-breed open source Cloud and Big Data technologies
- Develop infrastructure to ingest and process customer data

Requirements:

- BS or greater in CS, EE, Statistics, Math or a related field, 5+ years experience in relevant field
- Significant experience with 1 or more of Python, Java, or Scala
- Excellent written and oral communication skills
- Previous work with backend database and server-side technologies
- Experience with scalable search and indexing techniques

Plus:

- Experience in NGS and/or –omics data analysis
- Bioinformatics experience: quality control methods, network analysis, and/or pathway analysis
- Language design, formal grammars, and parser development
- Experience with Spark, distributed systems (Hadoop, HBase, ZooKeeper), Graph Databases
- Continuous Integration / Continuous Development practices
- Familiarity with JavaScript frameworks (D3, Angular, etc.)
- Familiarity with containerized environments (Docker Swarm, Kubernetes, Mesos, etc.)
- Familiarity with AWS infrastructure