Data Scientist/Engineer

Octo Consulting Group is seeking a Data Scientist/Engineer intern with strong background in computer science and applications, predictive modeling, statistics, analytics, machine learning and mathematics. This individual will work with Octo Consulting’s emerging R&D department and Innovation Labs (Octo Labs) to research, prototype and build interactive data based applications, visualizations and prototypes that are customer/market facing.

Responsibilities:
- Work with R&D lead to identify, research and prototype data analytics, modeling and visualization ideas
- Work with R&D lead, Project Managers and developers to prototype and build interactive web based data analysis and visualization applications
- Help identify the gaps in data analytics and visualization space, contribute to ideas and develop concepts for new algorithms and/or heuristics for data processing, analysis and visualization in the “big data” space for the public sector
- Work with public “open data” to produce interactive visualizations

Required knowledge and experience with the following:
- Demonstrated experience building interactive web sites based on modern standards and web browsers
- Strong foundation and background in statistical, mathematical, predictive modeling as well as business strategy skills to build the algorithms necessary to ask the right questions and find the right answers.
- Good understanding of the visualization techniques and ability to communicate their findings, orally and visually.
- Understand integrating multiple systems and data sets with an ability link and mash up distinctive data sets to discover new insights.
- Ability to design and implement data processing and analysis algorithms preferably in different programming languages such as Python, R, Java, Ruby, Clojure, Matlab, Pig or SQL.
- Thorough understanding of big data technologies such as Hadoop, Hive and/or MapReduce.

Required qualities/skills:
- Strong written and verbal communication skills
- Being able to work in a fast-paced multidisciplinary environment as in a competitive landscape new data keeps flowing in rapidly and the world is constantly changing
- Having the ability to query databases and perform statistical analysis
- Being able to develop or program databases
- Being able to advice senior management in clear language about the implications of their work for the organization
- Being able to create examples, prototypes, demonstrations to help management better understand the work
- Having a good understanding of design and architecture principles
- Being able to work autonomously
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Desired experience and/or familiarity:
- Understanding of and experience in working in a IaaS/PaaS environment such as Amazon Web Services (AWS) or other cloud provider
- Familiarity or experience with the following disciplines is a great plus
- Experience with software source code management (Git, Svn, etc.)
- Experience working in an agile environment and/or with continuous integration

Clearance Requirement: None

Location of Work: Tyson’s Corner, VA