Internship/Co-op positions

We are looking for internship/Co-op positions (undergrad/graduate students) for full-stack Python-based Web development. Applicants with the frontend/UI experience will be preferred. This role will support development of Web-based research data management platform. You will work with biomedical Big Data using HPC and Cloud infrastructure. This role is integral to successfully serving the research community to address their data management and analysis challenges. You will be required to work on user-facing Web interfaces, REST-based back end, and databases.

Responsibilities:
- Build and develop user facing Web applications and services
- Data analysis using local HPC and public cloud resources (AWS)
- Scalable, automated workflows for data analysis
- Create high quality, well designed, efficient, and testable code in accordance with current industry standards.
- Participate in the definition and documentation of requirements, architecture, and design of complex systems, based on knowledge of relevant software technologies being developed and/or used in commercial and scientific communities.
- Develop, test, document, deploy and maintain high-quality software, including REST interfaces, command-line interfaces, desktop and mobile clients, and distributed resource integration software

Competencies preferred:

Experience in developing web applications using some of the following technologies:
- Web Services (Python – Flask, Django)
- JSON
- JavaScript Frameworks (Angular, NodeJS, React)
- Relational Databases (MySQL, PostgreSQL, NoSQL)
- Distributed version control system (e.g., Git, Mercurial)
- Experience with Web technologies (e.g. REST, HTML, CSS, Javascript frameworks – Angular, JQuery)
- Knowledge of HPC / Cloud computing and distributed architectures a plus.

Contact

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