Web Developer Position for Development of a Scientific Data Sharing Platform

CRUX: A Collaborative Resource and Understanding Exchange

Call for Applications

The Northeast Big Data Innovation Hub (https://nebigdatahub.org) is looking for a web developer to be part of the Big Data CRUX Program. The candidate will work with data science faculty and six PhD students from institutions across the Northeastern United States to create a multi-disciplinary platform for data and knowledge exchange. The project will start in the 2018 spring semester and is led by Andreas Müller, Lecturer at the Data Science Institute at Columbia University, and René Bastón, Executive Director of the Northeast Big Data Innovation Hub.

About the Northeast Big Data Innovation Hub

The Northeast Big Data Innovation Hub is one of four regional Hubs forming a national network of academic, industry, and government partners supported by the National Science Foundation (NSF), with a mission to stimulate innovations enabled by Big Data and data science across the nation. Based at Columbia University in the City of New York and representing data-driven projects and institutions throughout our region, the Northeast Hub identifies high-priority societal challenges and builds public-private, multi-sector partnerships and consortia to address them with data-driven solutions.

About CRUX

The CRUX data sharing platform is a project developed at the NEBDIH, representing a community-driven approach to accelerating data-driven innovation. CRUX will provide an open online platform for sharing data sets together with well-defined, domain-specific tasks derived from target stakeholders in various subject areas. The goal is to provide real-world applications and data sets to data scientists, while providing subject matter experts from corporate and government sectors and from other academic disciplines access to Big Data expertise.

Responsibilities

The candidate will collaborate with Andreas Müller in developing the CRUX web application, which is the core component of the CRUX project. The application will serve as a community platform to share datasets and jupyter notebooks, and offers recommendations for datasets and algorithms. The CRUX platform is being developed entirely as an open source project via github. The candidate will work both independently in creating the necessary infrastructure and

user interfaces, as well as collaborate with the PhD students to integrate data sciences concepts into the application.

Desired Skills

Candidates for the web developer position must be students at Columbia University. The candidate must have extensive experience with the django web framework and the ReactJS frontend library. Experience data science and machine learning methods are advantageous.

Application Process

Please complete the application form (https://bit.ly/ApplyCrux) to send your application including cover letter, CV and optional letter of reference. Submission deadline is Monday, November 20th at 5 pm Eastern Time. Decisions will be issued by mid-December.

Contact Katie Naum at ken2115@columbia.edu with any questions about the position.