EMPLOYMENT OPPORTUNITY   Be a part of something BIG.

WEB DEVELOPER 2 – PRODUCT TEAM
JOB OPENING ID 335716

JOB DESCRIPTION

IPUMS (https://www.ipums.org/) is a leader in the field of quantitative social science research and the largest disseminator of census and demographic data to the world's academic research community. Or, to put it another way - we're on a mission to gather, process, link and publish billions of records spanning hundreds of years and more than 100 countries so that demographers, historians, economists, environmental scientists, journalists, policymakers, and others around the globe can use the data to do amazing research and make the world a better place.

The IPUMS IT group supports this mission by using leading open source tools to solve complex data and computation challenges and build reliable, scalable data dissemination systems. Your work will be highly visible and will contribute directly to the overall success of our organization. IPUMS is part of the University's Institute for Social Research and Data Innovation (http://isrdi.umn.edu).

IPUMS and its affiliated units support the work-life balance of our staff with 40-hour work weeks, flexible work hours, partial remote work schedules, and generous vacation and sick leave benefits. The University also offers excellent health insurance, tuition assistance, and retirement benefits. IPUMS IT has a robust professional development fund for staff training and development.

Diversity and inclusion is a core value of our organization. We aspire to create an IT team that represents the diversity of our city, our region, and our world, and to create a space that encourages and embraces inclusiveness, equal opportunity, and respect. We strongly encourage women and members of under-represented groups to apply.

About This Role
This position is for a software developer to work on web applications and APIs for our data products and supporting systems. This role will work across our product portfolio, and will work on a mix of existing and newly-built systems. This position is part of our Product software development team, and will work closely with the other members of the team on a daily basis.

The primary technology this role will use is Ruby on Rails, although increasingly we also use Python to build web services and JavaScript frameworks to build thin front end UIs. Other technologies this position will work with include Postgres, MySQL, RabbitMQ, Elasticsearch, and Docker. Prior experience with all of these technologies is not expected or required.

This position will have an annual starting salary of $80,000+, commensurate with experience.

RESPONSIBILITIES

The position will have responsibility for design, implementation and support of software systems, including enhancing and adding new features to the IPUMS web applications and APIs as well as building standalone software systems. This position will report to the Product team manager. This position involves daily interaction with the rest of ISRDI IT, the ISRDI research staff, and other user communities.

Work Breakdown

50% Software Implementation and Analysis. Coding, refactoring, testing and deployment in both individual and team settings.

20% Software Architecture and Design. Iterative development of architecture and design in partnership with IT and research staff.

25% Deployment and Support. Support of production systems as necessary.

5% Other job duties as assigned. Professional development activities, participation in IT working groups, and other tasks as assigned.

QUALIFICATIONS

Required Qualifications
Bachelor's degree. Two years of work experience in application/web/systems development with a related bachelor's degree or four years of work experience in application/web/systems development with a non-related bachelor's degree.
Required experience includes:

- Ruby on Rails or Python
- JavaScript and CSS
- Databases (relational or NoSQL)

Effective oral and written communication skills are essential. This position requires the ability to work independently on complex projects as well as the ability to effectively collaborate with your colleagues.

Preferred Qualifications
Experience with one or more of the following:

- API design and implementation
- JavaScript frameworks such as Angular, React, Vue, Ember or Backbone
- Containerization technologies such as Docker
- Service (or microservice) based architectures
- Developing applications in a Linux environment
- Working with and transforming large amounts of data
- Application server technologies such as NGINX, Puma, and Passenger
- Message queues such as RabbitMQ and Kafka
- Elasticsearch
- Proficiency in additional programming languages such as Java or C/C++.
- Experience with parallel/distributed computations.
- Experience with Test-Driven Development, Continuous Integration and other Agile software development concepts.

If you have an active github.com or similar code-sharing account please share details in your resume or cover letter.

APPLICATION PROCEDURE

Please apply using the University of Minnesota's online employment system humanresources.umn.edu/jobs and search job opening ID 335716. Application requirements include a resume, and a cover letter describing your interest and qualifications in the position. Questions concerning the application process may be addressed to Mia Riza, HR & Operations Manager, at isrdi-jobs@umn.edu.

Any offer of employment is contingent upon the successful completion of a background check. Our presumption is that prospective employees are eligible to work here. Criminal convictions do not automatically disqualify finalists from employment.