

Application Developer

Who We Are

The Canadian Research Knowledge Network (CRKN) is a partnership of Canadian universities, dedicated to expanding digital content for the academic research and teaching enterprise in Canada.

Through the coordinated leadership of librarians, researchers, administrators and other stakeholders in the research community, CRKN undertakes large-scale content acquisition and licensing initiatives in order to build knowledge infrastructure and research and teaching capacity in Canada's universities.

On April 1st, 2018 CRKN merged with Canadiana.org which has allowed our teams to cohesively pursue a united and coordinated strategy to leverage Canadian heritage and scholarly content. As a merged organization, CRKN will continue its core licensing activities for scholarly journal content, while expanding support for the digitization, access and preservation of Canadian heritage content through the services of Canadiana.

The Canadiana Platform team manages the Canadiana Preservation and Access platform, consisting of our [Trustworthy Digital Repository](#) and the [access platform](#) associated with its preserved content. We work to ensure that digitized content can be ingested into our system, distributed across the country, and made accessible to our member institutions and the greater public. Work in 2018 will focus on migrating our preservation platform to Archivematica and implementing IIIF specifications within our access platform with the goal of adopting common technologies and standards to better engage with the wider digital documentary heritage community.

The Role

Reporting to the Lead Application Developer, the **Application Developer** implements and maintains features, services and capabilities of the Canadiana platform. The Application Developer will work on interactive front-end applications, back-end systems and application program interfaces (APIs) for the repository and related services. The Application Developer is responsible for facilitating discovery of and access to content and metadata stored in the repository.

The position offers the opportunity to learn and grow as a key member of a small but ambitious team. As the successful candidate you will bring a diversity of development and interpersonal skillsets to the role. You are creative and adaptable in how you solve problems and address new challenges.

Duties and Responsibilities

- Assist the Lead Application Developer with analysis of functional requirements and creation of technical specifications, and the design of software and data structures
- Research tools and practices used in software development pertaining to the team's overall development direction
- Write, test, debug and document software to meet functional requirements and specifications
- Deploy applications to testing and production servers
- Evaluate bug reports and determine possible solutions
- Implement, test, deploy and verify bug fixes and solutions to problems as they arise
- Update web application templates, databases and content
- Keep up to date on the standards, practices and technologies in the gallery, library, archives and museum (GLAM) technical sector, by attending talks or webinars, and engaging in self-directed research

Qualifications

- A Bachelor's degree in Computer Science or a related field. Candidates without a degree will be considered if they have equivalent work experience
- Public code samples (i.e. show us your Github projects)
- A minimum of two years of experience in software development
- Familiarity with linked data and semantic web concepts and standards, such as JSON-LD, RDF, SPARQL, IIIF
- Comfort conceptualizing about the distribution of data and services in the cloud
- Proficiency with multiple scripting and programming languages, including JavaScript. Competency in Perl, Python and Ruby are also valuable to the role.
- Effectiveness with front-end web development using HTML, CSS and JavaScript, and familiar with front-end web frameworks such as React
- Experience with revision control systems such as Git and Subversion and their best practices
- Experience with using Docker for development and deployment
- Ability to adapt to changing technologies in a fast-paced environment
- Strong documentation and technical writing skills, and good verbal communication skills
- Ability to work effectively with a team
- Reliability Status from PWGSC is an asset

Benefits

CRKN offers a generous benefits package including vacation, health and dental benefits and pension match.

To Apply

Please send a letter of application and resume via email to:

Canadian Research Knowledge Network
Attention: Sascha Adler, Lead Application Developer
Email: hr@crkn-rcdr.ca

(Please reference **Application Developer** in the e-mail subject)

Candidates are also strongly encouraged to reference their public portfolio of code samples to demonstrate the diversity and variety of their skills and experience. We thank all applicants for their interest in CRKN, however only those candidates selected for an interview will be contacted.

If you require accommodation during the recruitment process, please include in your cover letter when applying for the position and all efforts to provide the appropriate accommodation will be put into place.

CRKN is an equal opportunity employer, with policies and practices intended to build an inclusive and accessible work environment.