Job Description

Job Title: Web Application Developer
Department: Federation of Students
Reports To: IT Manager
Jobs Reporting: None
Salary Grade: USG 7
Effective Date: July 2015

Primary Purpose
Reporting to the IT Manager, the Web Application Developer will be responsible for the development of new and the continued further development and maintenance of existing web applications for the Federation of Students. The Web Application Developer is part of a team that manages the Federation of Students’ information Technology (IT) systems and services and its web applications. As part of this team they will collaborate with the IT Manager, IT Administrators, key Federation of Students staff members and student contributors to develop, and maintain new and existing Federation of Students, and other web applications.

Key Accountabilities

Applications Development and Life Cycle Management
- Develops new, and maintains existing, Federation of Students web applications
- Deploys and configures new, and updates existing, web applications to development and production environments
- Develops and maintains test suites
- Maintains automated application deployment tools and scripts for the development and production environments and tools to replicate site contents between the two environments for testing
- Develops new, and makes updates to existing web application user interfaces
- Integrates web applications with other systems as required via API or other interface calls
- Ensures where required, web applications meet or exceed the requirements of the Web Content Accessibility Guidelines
- Identifies areas to improve the efficiency and usability of web applications either through use of, user feedback or as new technologies become available and proposes changes to be communicated to key stakeholders
- Develops, and periodically reviews, application Life cycle documentation in conjunction with relevant stakeholders
- Training and Communication
- Ability to communicate with clarity and effectiveness application requirements and specifications
- Trains clients in using application software
- Writes and maintains technical and user documentation
- Collaborates with various Feds staff members and other uWaterloo staff to determine scope and requirements for new and changes to existing web applications as per the relevant Life cycle documentation
- Performs usability tests with end users and develops appropriate user interface changes to improve usability
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- Solicits feedback on developed web applications and where appropriate suggests changes to improve usability or efficiency

*All employees of the University are expected to follow University and departmental health and safety policy, procedures and work practices at all times. Employees are also responsible for the completion of all health and safety training, as assigned. Employees with staff supervision and/or management responsibilities will ensure that assigned staff abide by the above, and actively identify, assess and correct health and safety hazards, as required.

**Required Qualifications**

**Education**
- Completion of a Bachelor’s degree, Advanced Diploma and/or equivalent work experience.

**Experience**
- 1+ years of business experience with a proven track record of achievement and success within a Web Application Developer role.

**Knowledge/Skills/Abilities**
- Competent troubleshooting, interpersonal, technical, organizational and communication skills
- Minimal working knowledge with MS Office
- Proficient in both Windows and Linux operating systems
- Proficient using, configuring and diagnosing problems and bugs in web applications
- Working knowledge of one or more common MVC web application frameworks such as CakePHP, Ruby on Rails, or Django
- Proficiency with basic web technologies such as HTML, CSS, and JavaScript
- Experience with Source Code Management technologies such as Git or CVN
- Experience using debugging software and with debugging techniques
- Working knowledge of relational databases and database transactions

**Nature and Scope**
- **Contacts:** Internally, communicates with most employees and across all Feds departments to deal with technical issues. Externally, this position will have occasional contact with other uWaterloo support departments.
- **Level of Responsibility:** This position requires exposure to, and occasionally processing sensitive or confidential information.
- **Decision-Making Authority:** Responsible for evaluating and implementing new technology within assigned projects.
- **Physical and Sensory Demands:** Minimal demands typical of a knowledge worker position operating within an office environment. Occasional lifting of heavy equipment. Disruptions and interruptions can be a regular occurrence during the work day.
- **Working Environment:** Minimal exposure to disagreeable conditions typical of a knowledge worker exposed to stress and pressure associated with a developer role. Normally, the Web Application Developer carries out all responsibilities during regular business hours. However, the Web Application Developer must occasionally work outside of regular business hours to deploy new systems or upgrade existing applications in the production environment, and might be called upon to work outside of regular business hours is emergency conditions warrant.