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# Learning Systems Developer

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Job # 08 - 73

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## POSITION PROFILE:

Under the direction of the Executive Director, provide technical leadership and project management in new tool development, designs, further enhancement, adoption, implementation, and testing of Etudes and other open source learning tools that respond to the needs of the user communities served by Etudes.

With leadership team, participate in defining short and long term strategies for implementing new technologies for Etudes

## DUTIES AND RESPONSIBILITIES OF THE POSITION INCLUDE:

- Develop Java web-based applications, using tools and methods consistent with Sakai and other adopted technologies for Etudes; implement standards such as RDF/XML, XML/XSLT, SOAP, and DTD.
- Design and implement system extensions and facilitate the release and maintenance of open source software.
- Design and implement enhancements to features and ensure efficiency in the application and database.
- Work closely with technical staff of partner institutions that use and work on the software, and provide support.
- Design and implement user interfaces, tools, and services to deploy state-of-the art software.
- Evaluate areas of system usage and performance.
- Assist in troubleshooting difficult technical software and production application and database problems.
- Participate in the design and implementation of deployed networks and server farms for open source systems.
- Participate in the setup and maintenance of developer testing and staging environments.
- Participate in release activities, deployment, and upgrades of Etudes tools with development team.
- Track and document changes to software systems.
- Develop and participate in technical and functional presentations to developer and user communities on the architecture, framework and use of specific applications.
- Write documentation and test cases; develop and lead technical sessions on design and functional topics.
- Keep up with evolving and emerging technologies.
- Perform other duties as assigned.

## DEMONSTRATED SKILLS AND ABILITIES:

1. Ability to analyze and resolve complex technical problems.
2. Ability to maintain current knowledge of technological advances.
3. Ability to establish and maintain cooperative and effective working relationships with other members of a team.
4. Ability to communicate effectively both orally and in writing.
5. Sharp attention to detail.

## MINIMUM QUALIFICATIONS:

Evidence of some or all of the following qualifications:

1. Five years experience as Senior/Lead software developer.
2. Any combination equivalent to a Bachelor's degree in Information Systems, Computer Science, or related field.
3. Understanding of, sensitivity to, and respect for the diverse academic, socio-economic, ethnic, cultural, disability, religious background and sexual orientation of all human beings.

## PREFERRED QUALIFICATIONS:

1. Experience in Java software system development, especially in J2EE technologies.
2. Experience with web-based application tools and methods such as Java, JSP, JavaScript, HTML, XML, SQL, servlets and portlets.
3. Experience with development tools such as SVN, CVS, IDEs, Ant, Maven, and DocBook.
4. Experience with various computer platforms including UNIX, Macintosh, and Windows NT/2000/XP, and with quality assurance, performance-testing efforts.
5. Experience with deployment and support of production software.
6. Knowledge of Apache, and Tomcat architecture, installation, configuration and administration.
7. Knowledge of JSF or GUI experience using AWT, Java Swing.
8. Working knowledge of databases, such as MySQL and Oracle.
9. Knowledge of collaboration support software.
10. Familiarity with W3C, IETF, and IMS standards.

WORKING CONDITIONS:

*ENVIRONMENT:*

Combination of physical office and virtual office environment; regular hours

*PHYSICAL ABILITIES:*

1. Hearing and speaking to exchange information and make presentations.
2. Dexterity of hands and fingers to operate a computer keyboard.
3. Seeing to read a variety of materials.

DATE APPROVED: July 14, 2008