Position Description

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Requisition Number:  03020537
Position Number:  02009209
Dept:  IET ACADEMIC TECHNOLOGY SVCS - 061417
Position:  APPLICATIONS DEVELOPER
Approved Payroll Title Code:  7300
Approved Payroll Title:  APPLICATIONS PROGR 3
Approved MSP Salary Grade:
Approved PSS Salary Grade:  PSS22

POSITION DETAILS

Under general supervision of the ATS Application Development team lead, the primary responsibilities of this position are: programming in HTML, JavaScript and PHP; supporting the deployment of Canvas and integrating third party learning tools working with LTI protocol; working with faculty to provide metrics on student performance and use of Canvas tools; administering application database in MySQL; administering ATS' WordPress multisite system, and providing user/technical and programming support for a variety of other recharge and instructional applications.

This position works with a moderate degree of decision-making autonomy and has a moderately high campus impact as it supports mission-critical systems and applications used by significant subpopulations of student, faculty, staff, and university affiliates.

Positions Supervised:  N/A
50% LEARNING TOOL INTEGRATION AND SUPPORT

- Serve as programmer for integrating 3rd party applications with the CANVAS learning management system, including adding new features, maintaining existing features, and performing alpha testing and QA procedures.
- Work with campus faculty and ATS staff to develop functional specifications for application integrations, new feature sets and modifications to existing features.
- Develop new LTI tools for campus Canvas users.
- Develop Python and PHP scripts to utilize RESTful APIs from multiple 3rd parties to extract, convert and export data in standard data formats such as JSON and XML.
- Program functions using PHP, HTML, CSS, and JavaScript for developing new application features.
- Maintain existing functionality by modifying code as necessary to accommodate future changes/updates in server software.
- Provide user/technical support to application users by responding to user emails, error reports etc., and resolving any user and/or technical issues in a prompt manner.

30% GENERAL PROGRAMMING

- In support of instructional, departmental and recharge clients, perform general design, development and programming of custom software applications.
- Gather requirements from users, analyze needs and make informed design suggestions with an eye toward balancing cost with functionality.
- Design and develop advanced functionality web pages using scripting languages including, but not limited to, PHP, HTML, and JavaScript.
- Create databases using MySQL or other database systems as required to support web-to-database functionality; interface programs to backend databases.
- Create advanced dynamic forms with appropriate validation and functionality.
- Maintain existing software programs, fixing bugs, upgrading supporting libraries.
- Troubleshoot, debug and correct web pages and applications based on customer-reported errors and logged errors.
- Assist in error tracking, resolution and related documentation processes.
- Provide Tier II and Tier III user/technical support to users of ATS’ previously developed applications and/or web products by responding to user emails, error reports etc., and resolving any user and/or technical issues in a prompt manner.
- Provide technical support to graphic artists with transformation of graphic design to web-ready artwork.
- Collaborate with graphic artists to meet color and text design requirements for the web.

20% WORDPRESS MULTISITE APPLICATION ADMINISTRATION
- Maintain WordPress standalone and multi-site instances.
- Install, test, and maintain WordPress themes and plugins.
- Provide Tier II and III user/technical support to WordPress users by responding to user emails, error reports etc., and resolving any user and/or technical issues in a prompt manner.
- Run security scanning software against deployed and development instances of WordPress.
- Stay current on developments within the WordPress community in particular with regard to security updates.
- Ensure accessibility of WordPress sites.

Physical Demands: Lift and move materials weighing up to 25 pounds.

Due to the mission-critical services provided by this department, this position may work hours other than M-F 8-5, especially in response to system problems.

Vacation is restricted during busy periods.

Occasional travel required.

Work Environment: Travel between campus and off-campus locations.

UC Davis is a smoke and tobacco free campus effective January 1, 2014. Smoking, the use of smokeless tobacco products, and the use of unregulated nicotine products (e-cigarettes) will be strictly prohibited on any UC Davis owned or leased property, indoors and outdoors, including parking lots and residential space.

Background Check: Yes

QUALIFICATIONS

Minimum Qualifications: Extensive experience in developing, managing and deploying complex web-based applications using PHP, HTML, JavaScript, Cascading Style Sheets (CSS), and scripting languages such as Python.
Experience with relational technology and skills in developing and using Structured Query Language (SQL) to perform complex queries on database platforms such as MySQL or Microsoft SQL Server.

Experience using Linux and Mac OS X operating systems.

Experience using full-term software development lifecycle, including the use of a revision control systems such as Git or Subversion and bug reporting systems such as Jira.

Critical thinking and problem solving skills; ability to troubleshoot operational problems, develop, and apply solutions.

Familiarity with website standards regarding data security, student privacy, and accessibility. Ability to create accessible, secure, and valid websites and applications. Familiarity with tools for testing security, accessibility and validity of websites.

Preferred Qualifications for Selection:

Degree in Computer Science or related field or equivalent education and/or experience.

Skill to manage multiple tasks individually while under a full workload and tight deadlines.

Experience developing or integrating applications using public or private APIs.

Experience using and/or developing software for the CANVAS learning management system.

Experience with LTI, xAPI and/or IMS Caliper interfaces.

Experience with installing, configuring and administering web based content management systems like WordPress or Drupal.

Experience communicating complex technical and/or system architecture concepts and issues to technical and non-technical audiences and presenting alternative solutions, to express ideas, opportunities and concerns verbally and in writing; listening and communicating with others (one-on-one and in groups), and providing feedback.
Expectations

- Read and adhere to the UC Davis Principles of Community.
- Adhere to workplace safety practices, read information communicated about workplace safety, complete required safety training on time, report any workplace safety issues promptly to their supervisor or the designated safety coordinator.
- Use tact and diplomacy for interactions with others.
- Communication skills to understandably and effectively describe technical requirements to technical and non-technical audiences.
- Support departmental goal of providing positive, innovative and effective customer service through performance of job functions.
- Maintain flexibility in a continuously changing and fast paced work environment.
- Ability to work independently under general direction from management, to manage workload across multiple simultaneous projects, to maintain a high level of productivity, and to meet deadlines under time constraints and continuously shifting priorities.
- Willingness to learn and apply new technology and willingness to develop skills to promote professional growth.
- Work with a diverse group of people in such a manner as to build high morale and group commitments to goals and objectives.