Position Description

Sonoma State University is committed to achieving excellence through teaching, scholarship, learning and inclusion. In line with our Strategic Plan and our Seawolf Commitment, our values include diversity, sustainability, community engagement, respect, responsibility, excellence and integrity. We strive to cultivate a community in which a diverse population can learn and work in an atmosphere of civility and respect. We encourage innovation, experimentation and creativity, as well as contributions to equity and inclusion, in the pursuit of excellence for all members of our university community.

Position Purpose: Reporting to the Director of Web Services, the Web Developer provides comprehensive design, development, and technical support services across multiple platforms for SSU websites. This is a full stack developer position, and includes HTML, LESS, CSS, PHP, Javascript, shell scripting, SQL, and other tools, libraries, and languages as required. This is a highly collaborative role, with close working relationships between developers, designers, managers, and service stakeholders.

Major Duties: Working relatively independently, the major duties of the position include, but are not limited to, the following:

- Work with a team of project managers, designers, developers and content strategists to complete customer website work on time and at a high standard of quality.
- As a member of SSU’s Drupal Team (other members are IT Web Services Director, Strategic Communications Director of Creative Services, University Library Web Developer), collaborate to design and build websites, themes and templates consistent with SSU branding, SSU Web Policy, and WCAG 2.1 AA accessibility standards.
- Develop and maintain code needed for SSU websites, primarily Drupal 7 and Drupal 9 multisite.
  - Drupal distribution maintenance – update modules and libraries as new releases become available; test updated distros; troubleshoot issues; report bugs to drupal.org or other relevant developers and track for fixes; develop code for local module patches; develop code for custom modules; apply updated distros to dev, stage and production Drupal sites.
  - Serve as technical lead for Acquia Cloud configuration, administration, and integration with other SSU IT systems (LDAP, Drupal Manager CGI, Gitlab, AWS, Siteimprove and others).
  - Drupal upgrades – serve as lead developer and technical lead for Drupal upgrade projects (e.g. Drupal 7 to Drupal 9).
  - Drupal templates – develop HTML, LESS, CSS, Javascript and PHP to build and update Drupal sites that are compliant with SSU branding standards, WCAG 2.1 accessibility standards, and other web standards and best practices.
  - Standalone templates – develop and maintain code (HTML, CSS, Javascript, etc.) reflecting current SSU branding standards; maintain git repository for templates; document use of templates; provide support for template use to campus website owners and/or third party contractors.
  - Working with IT Identity Management & Security, supports updates to IT’s Online Services portal by providing code and graphics for new services.
  - Automation – using Puppet and/or other relevant tools, build and maintain scripts to automate various processes and configurations needed to create, migrate, backup and restore Drupal websites on cloud hosting (currently Acquia).
  - Emergency Recovery – for SSU Drupal sites and other SSU sites supported by IT, ensure processes for emergency/disaster recovery are current and ready for use if needed.
  - Failover website – maintain and update code for SSU’s failover website on AWS.
  - Other SSU websites and projects as required.
- Employ accessible design, coding and maintenance practices throughout development and production of websites, as required by CSU’s Accessible Technology Initiative.
  - Code site templates to meet WCAG 2.1 AA accessibility standards or better.
o Use Siteimprove and other accessibility tools to monitor SSU Drupal and other Web Services-supported sites for accessibility compliance.

o Troubleshoot inaccessible code provided by third parties (e.g. vendors, contractors, module developers); and recommend methods to fix issues (e.g. workaround, bug fix, etc.)

- Develop and maintain integration of SSU websites with Google Search technology (Google Custom Search).
- Maintain DNS management for SSU Drupal sites.
- Work with IT Enterprise Infrastructure Services, maintain SSL certs for SSU Drupal websites, and other websites maintained by Web Services.
- Analyze Web Services processes and recommend changes where required.
- Maintain process documentation for the Web Services.
- With IT Enterprise Infrastructure Services, support the Web Services use of AWS. This includes but is not limited to instance management, network configuration, and DNS maintenance.
- Employ a version control system to manage code repositories for Web Services websites.
- Perform code reviews for other website developers.
- Continually research and learn evolving web technology, tools and approaches that support evolving needs, actively exchanging knowledge and expertise with colleagues.
- Maintain positive working relationships with and provide service to colleagues and customers with diverse technical aptitudes.

Secondary Duties: Performs other secondary duties as assigned.

Work Environment: Duties will primarily take place in an office setting however additional duties may be performed in various locations on the Sonoma State University campus, including working both indoors and outdoors to support and participate in university activities and events. The normal work schedule is Monday through Friday aligned with regular campus hours. As an exempt employee you have some flexibility in your schedule however must be available during the regular campus hours Monday through Friday to meet the operational needs of the campus and department. Evening and weekend hours may be required and will be specified only by the supervisor to meet operational needs. The incumbent must maintain regular and acceptable attendance at such levels as is determined by the Appropriate Administrator. The position may require occasional travel, by automobile and airplane, and the incumbent must be able to work some night and weekend hours with overnight stays.

Minimum Qualifications: This position requires a bachelor’s degree preferably in Computer Science, Computer Information Systems, Information Systems, Engineering or a related field with relevant equivalent training and applied experience. The incumbent must have acquired the requisite skills and knowledge to be able to demonstrate competence in independently applying technical judgment to solve a wide range of problems and develop practicable and thorough solutions. In addition, higher education and a minimum of 5 years of web development experience, including 3 years’ experience with Drupal 7 website development and Drupal 8 and 9 experience, is highly preferred. The incumbent must have a strong understanding of UI, cross-browser compatibility, general web functions and standards, as well as in depth expertise and hands on experience with Web Applications and programming languages such as HTML, LESS, CSS, JavaScript, JQuery and API’s. Knowledge of PHP and object-oriented design principles and experience troubleshooting with code debuggers are required. Must be comfortable using the command line in a Unix environment. Must understand Section 508 and W3C Web Content Accessibility Guidelines (WCAG). Experience with Git or comparable version control system and experience building accessible websites required, while experience with XML and XSL, with web services technologies, such as REST, SOAP, WSDL, Ajax, and JSON, or experience migrating content to Drupal preferred.

In addition, the incumbent should possess the following:

- In-depth knowledge of software applications, software engineering principles, and software architecture. In-depth knowledge of system development life cycle and structured systems development concepts. In-depth knowledge of network connectivity, integration, configuration, and protocols.
- In depth knowledge of application capability, impacts to functional processes, design restrictions and opportunities, security requirements and workflow, including process definition and creation.
- Working knowledge of networks, software maintenance, and data center procedures.
- Knowledge of training and consulting practices, including the ability to develop, and deliver trainings and process knowledge.
- Ability to use systems work flow and logic flowchart techniques.
- Strong knowledge of formal data flow analysis methodologies.
- Ability to apply and use operations analysis and structured design analysis techniques. Ability to research and evaluate the functionality of vendor software to meet user needs, assess vendor proposals, and serve as a technical/vendor liaison. Ability to upgrade and maintain both soft and technical skills, including an ability to continuously learn.
- Possess strong project time management, organizational, and decision-making skills as well as excellent interpersonal skills, including strong oral and written communication skills.
- Excellent analytical and problem-solving skills, ability to manage multiple concurrent projects, while maintaining attention to detail.
- Demonstrated ability to work independently and work cooperatively within cross-functional teams.
- Possess enthusiasm for learning emerging technologies and integrating them into projects.

Must have the ability to effectively communicate with all levels within the university and establish and maintain productive and effective, inclusive working relationships amongst diverse populations including staff, faculty, administration, students, and other internal and external constituents. Must be able to accept constructive feedback and work cooperatively in group situations.