



Classification Title: Web Developer

Department:	Telecommunications – Grants	EEO6 Code:	3
Employee Group:	Classified	Salary Grade:	43
Supervision Received From:	Manager, CCC Tech Connect Operations	Date of Origin:	1/2026
Supervision Given:	Direction and Guidance	Last Revision:	1/2026

Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed by individual positions.

JOB SUMMARY.

Performs a variety of advanced functions related to the design, development, implementation, maintenance, and security of web applications and services for the California Community Colleges (CCC) system; performs full-stack development, cloud infrastructure management, and integration of third-party tools to support the CCCTechConnect initiatives; ensures optimal functionality, performance, and security of web properties while adhering to industry best practices.

DISTINGUISHING CHARACTERISTICS.

The Web Developer is distinguished from the Web Analyst by the former’s advanced technical responsibilities, including full-stack development, cloud infrastructure management, and the implementation of complex web solutions to include ensuring optimal functionality, performance, and security, while the latter classification is responsible for web design, development and maintenance.

ESSENTIAL AND MARGINAL FUNCTION STATEMENTS.

Essential Functions: Essential responsibilities and duties may include, but are not limited to, the following:

1. Performs a variety of functions related to full-stack development, implementation and maintenance of web applications using .NET (C#), Python, and modern JavaScript frameworks (e.g., React, Angular, Vue.js) including data requests and analyses, system capacity analyses, database design, systems performance, response time and documentation requirements.
2. Performs API/LTI development; implements and maintains LTI 1.1, 1.3 compliant tools, including integration with learning platforms, RESTful APIs, and security protocols.
3. Performs backend development; builds and optimizes server-side logic, microservices, and RESTful APIs using .NET Core, ASP.NET, and Python frameworks.
4. Consults with project teams regarding the creation and production of web applications; works closely with project teams to ensure websites meet the objectives of content, audience satisfaction and functionality.
5. Performs cloud infrastructure; deploys and manages applications on AWS services (e.g., EC2, Lambda, S3, RDS, CloudFront) and implements CI/CD pipelines.

6. Serves as a primary source for information, consultation and recommendations on matters related to web applications and maintenance; performs periodic system maintenance functions and updates of assigned web applications; provides requirements and direction to contracted resources.
7. Develops system requirements and business solutions; conducts extensive quality assurance; conducts testing, troubleshooting, and performance tuning to ensure high availability and scalability of web applications.
8. Designs, develops, implements and maintains customized applications; performs system integration; architects and implements unified identity systems (e.g., AWS Cognito) and integrates third-party services (e.g., PlayPosit, Zoom); develops and administers Internet and intranet portals to include programming web parts, virtual working environments, user authentication and security, and integration with other web services.
9. Conducts database management; designs, coordinates, updates and maintains relational and NoSQL databases (e.g., SQL Server, PostgreSQL, MongoDB) and performs schema optimizations; develops and maintains archive conversion processes.
10. Supports and maintains web applications of present and future projects; assists users in resolving problems and determining software needs; provides technical support for intranet development and maintenance, third party application implementation and web server administration.
11. Conducts routine web applications audits to maintain consistency of presentation, optimal functionality and proper operation of interactive components and features; monitors and reports on website activities and traffic.
12. Maintains web security through firewall configurations, authentication protocols, and adherence to local, state, and federal regulations.
13. Performs frontend development; develops responsive and user-friendly interfaces, ensuring cross-browser compatibility and accessibility.
14. Oversees the migration and modernization of legacy systems (e.g., 3C Media, Drupal portals) and provides technical direction to contracted resources.

Marginal Functions:

1. Stay current with emerging web technologies, trends, and best practices.
2. Provides mentorship and technical guidance.
3. Performs basic administrative support tasks as required.
4. Performs related duties and responsibilities as required.

QUALIFICATIONS.

Experience and Education/Training Guidelines: Any combination of experience and education/training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Experience: Five years of experience in web development, including three years in cloud-based solutions.

Education/Training: Equivalent to a bachelor's degree in computer science, information technology, or a closely related field from an accredited college or university.

Knowledge of:

1. Advanced principles and practices of computer science, web architecture, and scalable system design.
2. Modern web technologies and frameworks, including HTML, CSS, JavaScript, Node.js, PHP, .NET Core, and React.
3. AWS cloud services, DevOps practices, and CI/CD pipelines.

4. Database systems, SQL, and NoSQL solutions.
5. Network security principles and practices, authentication protocols, and compliance standards.
6. Project management methodologies and agile development practices.
7. Principles, methods and techniques utilized in the design of web architecture and applications including standard web programming languages and web development tools.
8. Network and operating system architectures, characteristics, components, uses, protocols and limitations.
9. Methods and techniques of installation, configuration and troubleshooting a variety of web server systems.
10. Methods and techniques for preparation of systems and customer documentation.
11. Internet browser applications, hypertext markup language (HTML), editors, plug-ins and operating system extensions.
12. Web-based electronic mail, forms, databases, search engines, listservs, Adobe Flash animation and other interactive applications.
13. Basic principles and practices of systems administration applicable to assigned responsibilities.
14. Local, state and federal regulations, including terminology and processes applicable to areas of assigned responsibility.
15. Principles and practices of sound business communication.

Skill in:

1. Designing and implementing high-performance, secure web applications.
2. Troubleshooting and resolving technical issues efficiently.
3. Writing clean, documented, and testable code.
4. Collaborating with cross-functional teams, including designers and product managers.
5. Communicating technical concepts clearly to non-technical stakeholders.
6. Performing business process analyses and reaching sound, logical conclusions regarding customer needs and business requirements.
7. Understanding and applying the analysis of functional requirements to the development of systems proposals, specifications and recommendations for efficient, cost-effective web technology solutions to customer requirements.
8. Supporting and maintaining websites.
9. Designing, developing, implementing, maintaining and supporting secure web architecture, web portal and/or non-portal interfaces and web applications to ensure optimal functionality, integrity and security.
10. Manipulating and creating web graphics and extracting database information.
11. Planning and completing projects efficiently and in accordance with established quality standards.
12. Troubleshooting and resolving website, application, database and network problems.
13. Preparing clear, concise and accurate systems documentation and reports of work performed.
14. Making sound independent judgments within established policy and guidelines.
15. Communicating clearly and effectively orally and in writing.
16. Keeping technical skills current to meet continuing web development assignments.

17. Maintaining sensitivity to and understanding of the diverse academic, socioeconomic, age, cultural, physical or mental disability, medical condition, gender, gender expression, gender identity, sex, sexual orientation, nationality, race and ethnic backgrounds of community college students, faculty, and staff.
18. Establishing and maintaining effective working relationships with those encountered in the course of work.

WORKING CONDITIONS.

Environmental Conditions: Incumbents work primarily in a computer environment amid noise, some dust and regular exposure to video screens, electrical and electronic equipment.

Physical Conditions: Essential and marginal functions may require physical fitness requirements necessary to perform the job functions with or without accommodation, such as the ability to sit for prolonged periods; use hands repetitively to operate computers and standard business equipment; near visual acuity to read computer screens.

TERMS OF EMPLOYMENT.

The duration of any fully restricted funded position in this classification is dependent upon the continuation of funding.