

Web Development Internship Curriculum

15 Days Internship Curriculum:

- 1. Introduction to Web Development:**
 - Overview of web technologies
 - Client-side vs. server-side development
- 2. HTML Fundamentals:**
 - Structure and semantics of HTML
 - Tags, elements, and attributes
- 3. Data Preprocessing:**
 - Styling web pages with CSS
 - Selectors, properties, and values
- 4. Responsive Web Design:**
 - Media queries for responsive layouts
 - Flexbox and Grid for layout design
- 5. Introduction to JavaScript:**
 - Variables, data types, and operators
 - Control flow and functions
- 6. DOM Manipulation:**
 - Accessing and manipulating HTML elements
 - Event handling with JavaScript
- 7. Introduction to PHP:**
 - Basics of PHP syntax and variables
 - Server-side scripting with PHP
- 8. Introduction to Laravel:**
 - Overview of Laravel framework
 - Setting up a Laravel project

Web Development Internship Curriculum

30 Days Internship Curriculum

9. Intermediate PHP:

- Arrays, loops, and control structures
- Functions and error handling

10. Laravel Models and Views:

- Working with Eloquent models
- Blade templating engine for views

11. Laravel Controllers and Routes:

- Creating routes and controllers
- Request handling and response generation

12. Database Operations with Laravel:

- CRUD operations with Laravel Eloquent ORM
- Database migrations and seeding

13. Authentication in Laravel:

- User authentication and authorization
- Implementing authentication features with Laravel

14. Introduction to Version Control:

- Basics of Git and GitHub
- Cloning repositories and making commits



Web Development Internship

Curriculum

45 Days Internship Curriculum

15. **Advanced Laravel Concepts:**
 - Middleware and request lifecycle
 - Events and listeners
16. **API Development with Laravel:**
 - Building RESTful APIs with Laravel
 - API authentication and security
17. **Testing and Debugging in Laravel:**
 - Writing tests for Laravel applications
 - Debugging techniques and tools
18. **Deployment of Laravel Applications:**
 - Setting up hosting environments
 - Deploying Laravel applications using platforms like Heroku or AWS
19. **Advanced Front-end Development:**
 - Integrating Laravel backend with front-end frameworks like React or Vue.js
 - Handling API requests and responses in front-end applications
20. **Practice Exercises:**
 - Building full-stack web applications with PHP, Laravel, and front-end technologies
 - Implementing CRUD operations, authentication, and API integration