

Curriculum

Frontend Web Development Certificate



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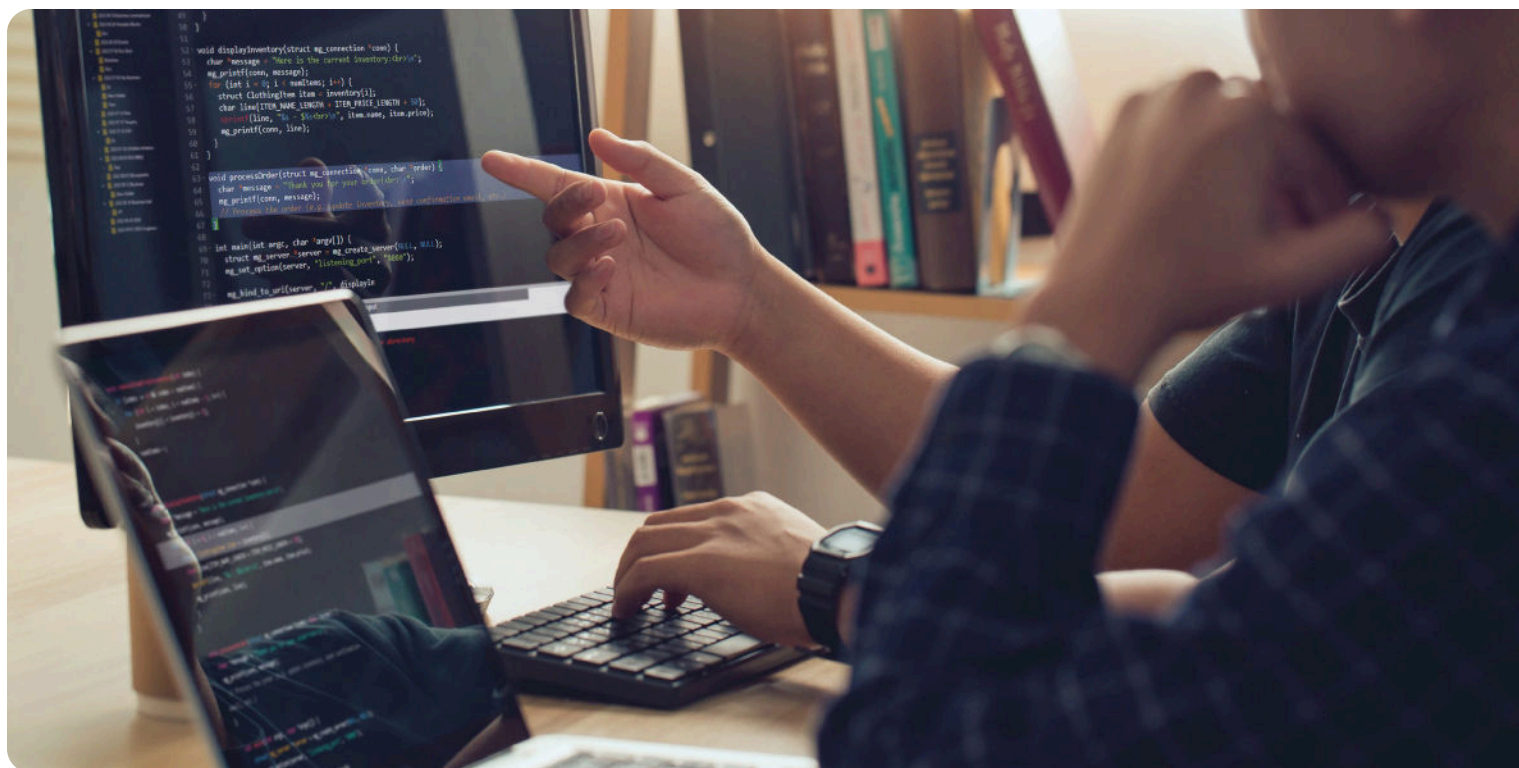
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WHY DWC?

\$16.4K

average increase in salary of
certificate program students



Why Frontend Development?

Get started with a career in Frontend Web Development by learning the essential languages, frameworks, and tools needed to help you move forward in your development career. With your instructor as your mentor every step of the way, you will leave this program knowing how to code from scratch and build beautiful websites.

Digital Workshop Center's Frontend Web Development program takes a modern approach to teaching web development, one that hiring managers recognize, and prepares students for a variety of web development career paths.



PROGRAM LENGTH*

198 total hours.
66 total sessions
of 3 hours each.



TARGET STUDENT

Beginner



PRE-REQUISITES

Basic Digital
Literacy is
required.

*Additional coursework may need to be completed outside of class time.

Possible Frontend Web Development Career Paths

Every organization with a digital presence needs people who can build and maintain it, from marketing teams and agencies to SaaS, e-commerce, healthcare, and nonprofit employers.



FRONTEND WEB DEVELOPER

Using web languages such as HTML, CSS, and JavaScript, front-end developers create websites and applications that enable users to access and interact with the digital product.



USER INTERFACE DESIGNER

Different from developers, user interface designers are focused on the look and feel of how a digital product works for its users and are concerned with how accessible the visual aesthetics are.



WEB ANALYST

Web analysts collect and analyze user interaction data of the digital product to evaluate the preferences of consumers and how well the product is conforming to those preferences.



MOBILE DESIGNER

Mobile designers are responsible for creating and implementing designs that can be used to create user interfaces on mobile devices.

Performance Based Objectives

Upon successful completion of this program, students will:

- ✓ Understand core languages of the web including HTML and Cascading Style Sheets (CSS)
- ✓ Learn advanced scripting with JavaScript, React, and related frameworks
- ✓ Dive into the MERN stack (MongoDB, Express, React and Node)
- ✓ Examine essential web tools to improve your design workflow and efficiency
- ✓ Explore an introduction to fullstack development
- ✓ Design portfolio ready projects with help from your instructor as your mentor
- ✓ Learn about the role of AI in development

WHY DWC?

1 on 1

career counseling and
mentoring included



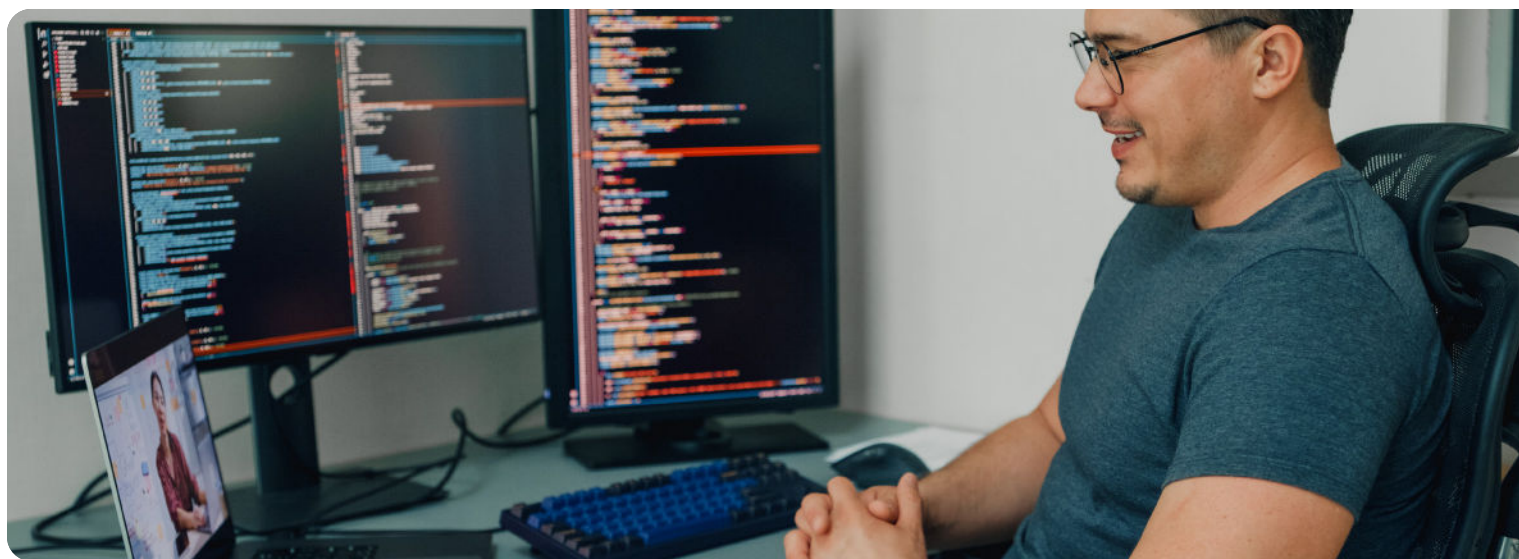
Curriculum

All instruction is held live on Zoom, with class links in your student portal. The program meets three times per week for 3 hours per session. Your class schedule is set once enrollment fills.*

MODULES		HOURS*	SESSIONS
MODULE 1	Introduction to Frontend Development	45	15
MODULE 2	JavaScript	54	18
MODULE 3	Essential Web Tools	18	6
MODULE 4	Node/Webpack/React	36	12
MODULE 5	Intro to Fullstack Development	27	9
MODULE 6	Portfolios and Capstone Project	18	6
Total		198	66

*All schedules are approximate and subject to change. Your instructor reserves the right to alter this calendar as circumstances may dictate.

* Class start timing depends on enrollment and cannot be guaranteed.

**MODULE 1 / 45 HRS / 15 SESSIONS**

Introduction to Frontend Development

In Module 1, students will learn about the fundamental languages of frontend development and begin the journey towards creating beautiful web sites. Discover how to write your own HTML and CSS code to understand foundational building blocks. By the end of this module, students will be able to create professional, static web sites using the latest HTML and CSS techniques.

- Overview and fundamentals, vocabulary, tools, expectations of program
- Discussing projects and final Capstone
- HTML & CSS
- Bootstrap
- Search Engine Optimization (SEO)
- Advanced HTML/CSS

ALUMNI SUCCESS STORIES



"This was a great class to begin with. Jake did a great job with the lessons. The projects really help because it helps students to think outside of the box and really push their limits."

Terrian Heck
DWC FEWD Alum

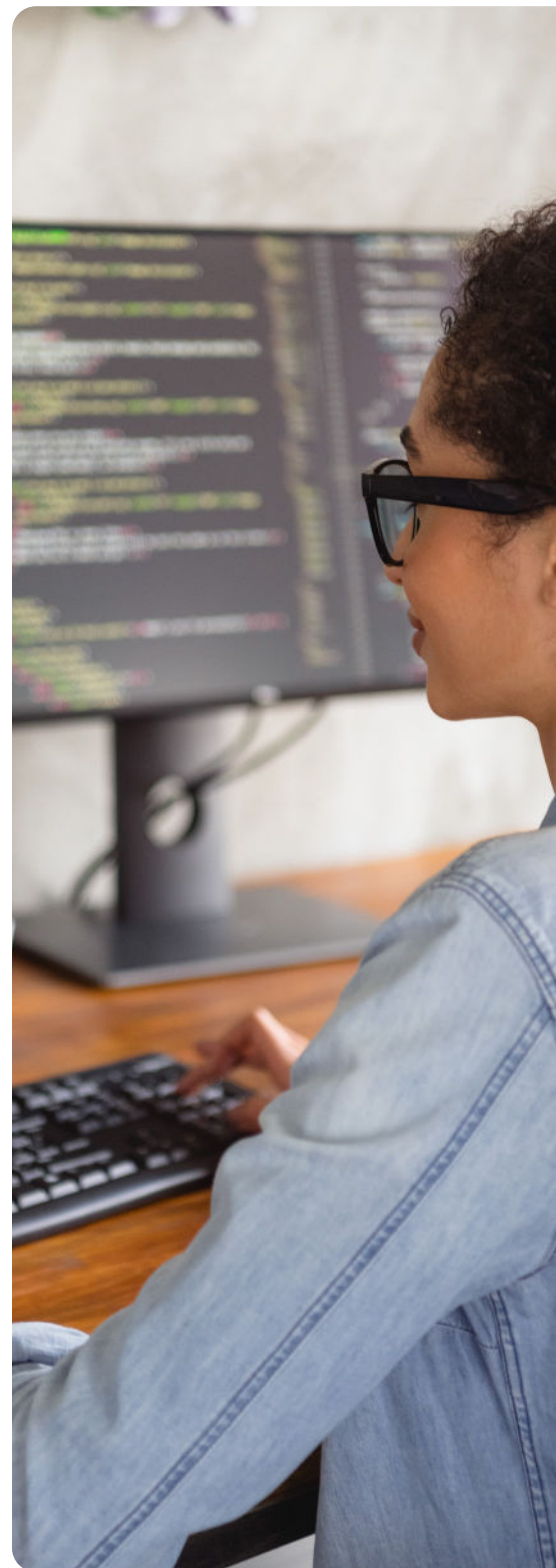
[READ TESTIMONIALS](#)

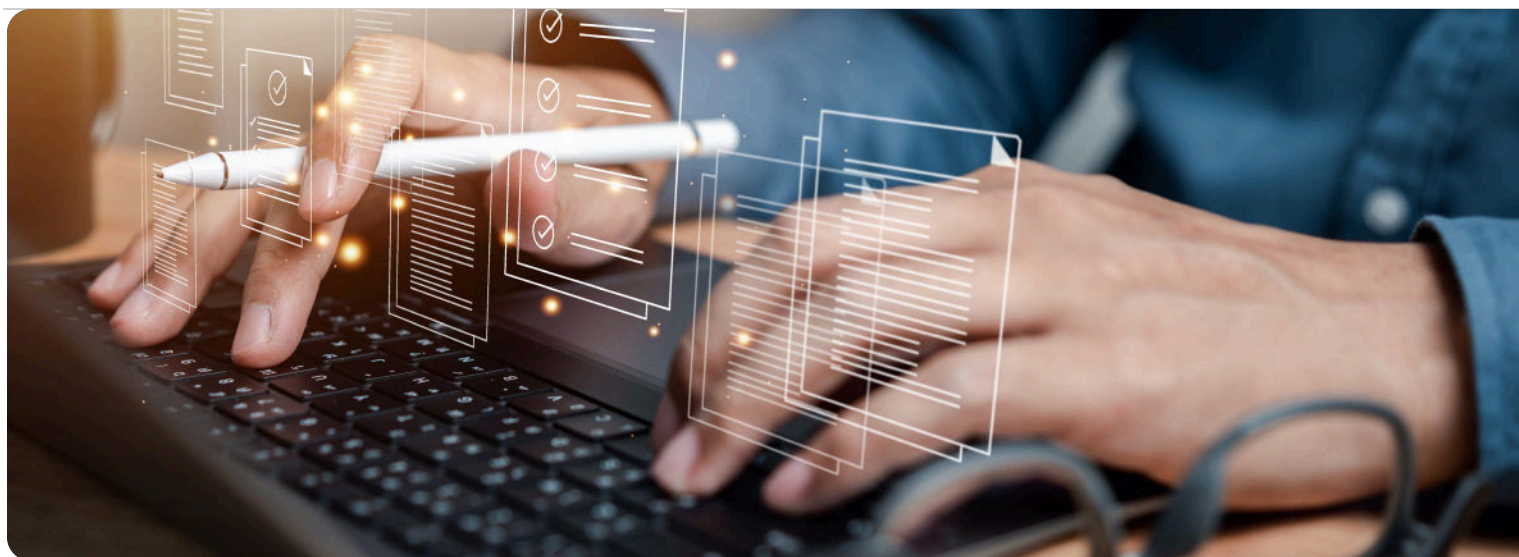
MODULE 2 / 54 HRS / 18 SESSIONS

JavaScript

In Module 2, students will learn how to add interactive and dynamic components to their web designs. Learning JavaScript allows developers to add features such as dynamically updating content, animations, pop-menus, clickable buttons, control multimedia, and more. By the end of this module, students will have a deeper understanding of this versatile and essential coding language.

- Introduction to JavaScript
- Values / Types / Operators
- Execution Environments
- Variables
- Expressions and Statements
- Syntax
- Control Flow
- Data structures including objects, primitive vs reference types, arrays, looping
- Native variable types
- Functions
- The DOM (Document Object Model)
- Events
- Forms – elements and validation
- Continuing your JavaScript vocabulary
- Maintain JavaScript code using programming techniques
- Learn about modules, callbacks, JavaScript evolution
- Dependencies and Builds
- Frameworks
- Testing
- Asynchronous JavaScript



**MODULE 3 / 18 HRS / 6 SESSIONS**

Essential Web Tools

In Module 3, students will begin advanced work in libraries such as React to begin creating more sophisticated user interfaces. Students will build confidence with tools used by professional web developers, including Command Line and Git. By the end of this module, students will have a better understanding of data storage, content management systems, and begin discussing the role of AI throughout modern web development.

- Execution environments effectively use modern code editors and related plugins
- Understand the Command Line
- Understand JavaScript Libraries (Intro to JQuery, Intro to React etc)
- Understand JavaScript Templating Languages/Frameworks (Intro to Handlebars, Express etc)
- Understand Data Storage (Intro to databases, SQL, NoSQL etc)
- Implement and understand Git, and related version control tools
- Introduction to package managers
- Understand and use browser developer tools
- Intro to Content Management Systems
- Editing graphics for the web
- Discussion of AI tools for web development

ALUMNI SUCCESS STORIES



"Look at the Digital Workshop Center to see if it provides those skills at a much more affordable cost than traditional college would."

Kathy Bush
DWC Alum

[READ TESTIMONIALS](#)

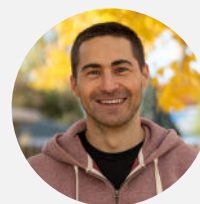
**MODULE 4 / 36 HRS / 12 SESSIONS**

Node / Webpack / React

In Module 4, students explore Node.js to generate dynamic page content, collect form data, and communicate with a database. This essential library has become an industry standard because of its ease of use and high functionality. By the end of this module, students will also explore Webpack as a module bundler to transform front-end elements.

- Implement and understand Node and Npm
- Command line interface
- Server creation
- Modules
- Http Module
- Create your own Module
- File System
- CRUD operations/ Rename files
- URL Module
- Package Manager
- File upload
- Email
- Implement and understand Webpack
- Core concepts
- Entry
- Output
- Loaders
- Mode
- Plugins
- Implement and understand React and React DOM
- Core concepts
- Hooks
- Components
- API's

ALUMNI SUCCESS STORIES



"That's what was great (about your instructors) because he is part of the graphic design world. His career is so vast. So we're learning technical skills, but he was also giving us a lot of real world situations..."

Michael Weaver
DWC Alum

READ TESTIMONIALS

**MODULE 5 / 27 HRS / 9 SESSIONS**

Intro to Fullstack Development

In Module 5, students begin to explore the connection between frontend and backend as part of the MERN stack. While this program focuses on frontend development, we feel it is essential that all students understand the basics of full stack languages involved in modern web programming to be successful.

- Database management
- Fullstack technologies: Database, frameworks, libraries
- Web Development stacks and how they work
- MERN (MongoDB, Express, React and Node) stack and how they work together
- Setting up and understanding MongoDB/Add sample data
- Setting up Node and Express backend
- Understand Express
- Create Backend server
- Controllers
- Understand controllers
- Create frontend with React
- Discussing the role of AI in fullstack development

ALUMNI SUCCESS STORIES



"Great training and classes for real world application. Teachers are very thorough and offer individual support both in and out of class."

Richard Woodruff
DWC Alum

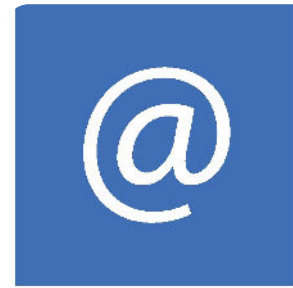
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MODULE 6 / 18 HRS / 6 SESSIONS

Portfolios and Capstone Project

In Module 6, students have an opportunity to put their finishing touches on their portfolio. As students begin to look after graduation and to the next step of their career path, our instructors will provide extensive mentorship on what the job market trends look like, and how to prepare to find work as a developer. At the end of this module, students will present their final Capstone project and receive critique from their peers.

- Finding work as a developer
- Developer Interviews
- Portfolio: further planning, review developer portfolios, critiques
- Final Project Presentations and Critique



Pace & Schedule

At Digital Workshop Center, we know that how you choose to learn is one of the key factors driving your success. Combining live online learning through Zoom and individualized support, all students have access to a personalized and mentored learning experience.

Learn online. With guidance every step of the way.

DWC students have access to career coaching, Slack channels, and team support throughout the program.

Your program is a small live class with rolling enrollment: enroll any time, and your class schedule is set once enrollment fills, typically within 2 to 3 weeks.*

Length	About 6 months
Time Commitment	198 hours
Career Services Support	Yes
1:1 With Instructors	Yes
Live Lectures	Yes
Small Live Classes	Yes

* Start timing depends on enrollment and cannot be guaranteed.

Why Digital Workshop Center?

DWC has delivered live, instructor-led career training nationwide since 2006. Most frontend training is a self-paced video course where no one reviews your code, or a large bootcamp where the instructor teaches to the middle.

At DWC your instructor is a working developer, your class stays small, and you graduate with the DWC Frontend Web Development Certificate, a professional certificate issued by Digital Workshop Center.

Included with tuition, for every student:

- ✓ Admissions advisors from pre-enrollment through your first day
- ✓ Instructor mentoring before, during, and after class
- ✓ Portfolio projects in every module and a live Capstone critique
- ✓ One-on-one career coaching on your resume and job search
- ✓ Tech support by Slack, email, or phone while you train
- ✓ Parker Dewey micro-internships and the DWC alumni community

WE OFFER SCHOLARSHIPS

You may only apply for one of the following scholarships:

Tech Skills Scholarship

For unemployed, dislocated workers, or those looking to up-skill, re-skill, or add new skills

Women and Tech Scholarship

For women looking to re-skill, up-skill or add new skills in a technology career

Next Mission Scholarship

For active or retired military service members and their families

[LEARN MORE](#)

WHERE OUR GRADS HAVE BEEN HIRED



Ready to Transform Your Career in Just 3 Simple Steps?

STEP 1

Talk to an Advisor

Schedule a quick 15-minute meeting with a student advisor. Ask questions about the enrollment process, tuition, schedules & more.

[SCHEDULE MEETING](#)

STEP 2

Discover the Digital Workshop Center Difference

Experience our unique approach before you commit. Attend our mandatory program orientation to get a feel for our hands-on, practical teaching style.

[LEARN MORE](#)

STEP 3

Easy Enrollment

Begin your journey effortlessly with our straightforward online application. It's fast, easy, and your first step towards a brighter future.

[APPLY NOW](#)

Contact Us

Phone: [970-980-8091](tel:970-980-8091)

Email: info@digitalworkshopcenter.com

Have Questions?

Have questions about our programs? Reach out to our admissions team for more help.

[CONTACT US](#)