

Learn.Modern Developer Curriculum for Career Paths 1, 2, and 3

We meticulously researched modern web development topics, technologies, and principles; studied modern computer science curriculums and programs; analyzed technology usages and trending patterns; interviewed developers and project managers, from firms small and large alike; and used our experiences and expertise in web programming and from our work in different capacities to formulate what we believe is the **best—that is, most comprehensive, relevant, pioneering, and apt—curriculum on modern web programming and web development**. The curriculum follows:

1. Student Orientation [**1 week**]
2. “Are You Ready” Screening Interview (Each student will be asked a total of 2–5 simple, really simple, basic JavaScript, HTML, and CSS questions. This will begin on day 3 or 4 of Orientation and continue for about 6 days, depending on the number of students needing extra time.)
3. Communicating Effectively for Success: Mastering the Most Elusive and Most Valuable Skill for Programmers [**1–2 weeks**]
4. Versioning and Revision Control (SVN, Git, Github, Bitbucket): Part 1 [**3–4 days**]
5. The Command Line for Modern Web Developers (SSH, Terminal, NPM, and more) [**1–2 days**]
6. Study Guide Review: Beginning JavaScript and Modern Web Development [**4–5 days**]
7. Study Guide Assessment (Each student will answer five unique questions on material from our study guide.)
8. Improve Your Grit and Achieve Something Extraordinary: Section 1 and Monthly Assignment [**2 days**]
9. Computer Science Math for Web Programmers: Improve Your Problem Solving, Logic, and Algorithmic Skills [**7–14 days**, depending on student’s math competency]
10. The Art of Solving Programming Exercises and Algorithmic Challenges (including Building a World-Class Utility Library Like Underscore.js) [**2 weeks**]
11. Improve Your Grit and Achieve Something Extraordinary: Section 2 and Monthly Exercises Assignment
12. Versioning and Revision Control (SVN, Git, Github, Bitbucket): Part 2
13. Mastering the Text Editor: Sublime Text
14. Mastering the IDE: WebStorm—Beginner to Intermediate
15. Fundamentals of JavaScript and Modern Web Development
16. Improve Your Grit and Achieve Something Extraordinary: Section 3 and Monthly Exercises Assignment
17. Mastering the IDE: WebStorm—Advanced and Beyond
18. Mastering the Command Line (Includes building Command Line Interface [CLI] apps)
19. Mastering JavaScript and Modern Web Development

20. Improve Your Grit and Achieve Something Extraordinary: Section 4 and Monthly Exercises and Assignment
21. Advanced JavaScript and Modern Web Development

—— [END of Career Path 1: (Career Path 1 Students Only: Doing the Extraordinary: Building and Launching Your Pinnacle Project)] ——

22. UI/UX Development: Crafting Delightful, Winnable Experiences and User Interfaces

—— [END of Career Path 2 (Career Path 2 Students Only: Doing the Extraordinary: Building and Launching Your Pinnacle Project)] ——

23. Architecting Frontend Web Applications (includes building a frontend framework and introduction to Backbone.js)
24. Frontend Framework: React.js—Beginning to Advanced and Beyond
25. Optional Frontend Framework: Angular.js—Beginning to Advanced and Beyond (Optional)
26. Improve Your Grit and Achieve Something Extraordinary: Section 5 and Monthly Exercises and Assignment
27. Interview Preparation and Intangibles
28. Improve Your Grit and Achieve Something Extraordinary: Section 6
29. Doing the Extraordinary: Building and Launching Your Pinnacle Project
30. Improve Your Grit and Achieve Something Extraordinary: Section 7 and Final Assessment and Assignment

—— [END of Career Path 3] ——

We have also added these courses to our backend curriculum:

- WordPress Theming (optional)
- Introduction to MySQL (optional)

Note:

— You will learn just about the entire JavaScript language, and just about all of jQuery, CSS, HTML, and frontend development tools and principles during our frontend career path.

We may modify this schedule from time to time.