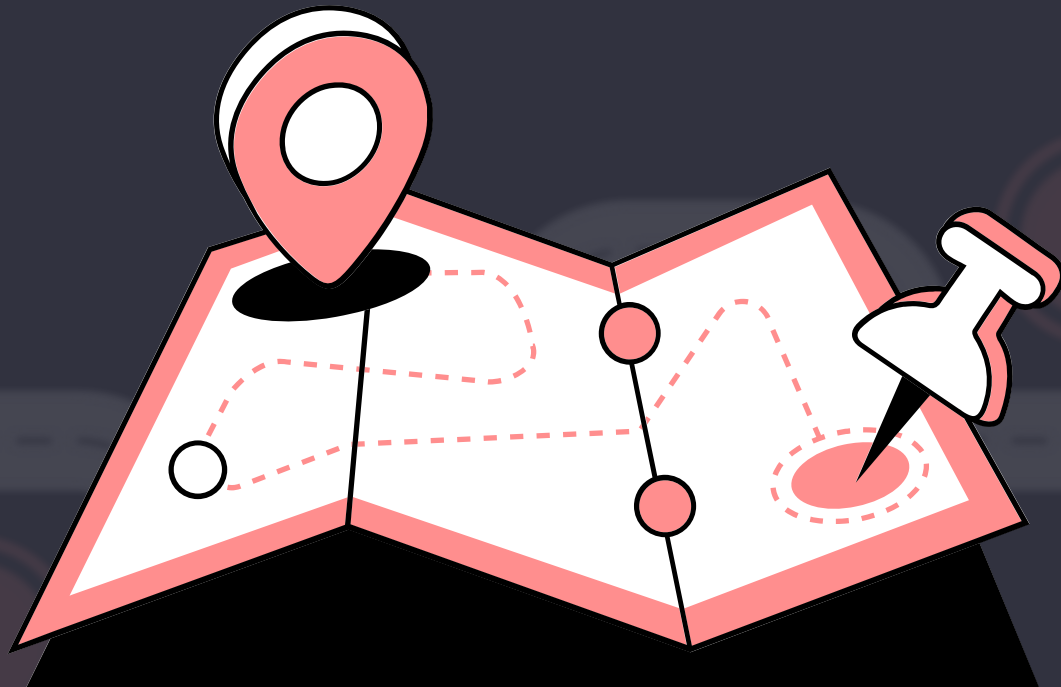


WEB DEV ROADMAP 2025





WEB DEVELOPMENT ROADMAP 2025

1. HTML and CSS

What to Learn:

- What is HTML? It's the basic building block of any website.
- Learn how to write headings, paragraphs, images, links, buttons, and forms.
- What is CSS? It makes your website look nice with colors, layouts, and designs.
- Learn about borders, padding, margin, font styles, background images, etc.

Next Step:

- Make websites look good on phones and tablets using something called Responsive Design.
- Try using tools like SASS or SCSS to write better CSS.

2. JavaScript

What to Learn:

- JavaScript makes websites interactive.
- Learn variables, functions, loops, if-else conditions, and arrays.
- Change things on your website using JavaScript — like showing a popup or hiding a menu.

Next Step:

- Learn how to work with data that takes time, like fetching data from the internet (called asynchronous JavaScript).
- Try learning popular tools like React, Angular, or Vue.js to build apps faster.

3. Version Control (Git)

What to Learn:

- Git helps save your code step by step.
- Learn basic commands:
 - git init, git add, git commit, git push, git pull
- Use GitHub to store your code online.

4. Build Tools and Task Runners

What to Learn:

- Use tools like Webpack or Vite.
- These tools help make your website faster and cleaner.
- Learn how to bundle and minify your code.

5. APIs (Application Programming Interfaces)

What to Learn:

- APIs help different apps talk to each other.
- Learn how to get data from an API using fetch or axios.
- Learn to make your own APIs using backend tools.



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6. Authentication and Authorization

What to Learn:

- Authentication means logging in (like with email and password).
- Authorization means checking what a user can or cannot do.
- Learn tools like JWT (JSON Web Token) and OAuth.

7. Database

What to Learn:

- Databases store your data.
- Learn SQL (MySQL or PostgreSQL) for structured data.
- Learn NoSQL (like MongoDB) for flexible data.

8. Server-Side Programming

What to Learn:

- Learn Node.js to run JavaScript on the server.
- Use Express.js to create web servers and APIs.

9. Server Deployment

What to Learn:

- Learn how to put your website live on the internet.
- Use platforms like:
 - Heroku
 - Vercel
 - Netlify
 - AWS (Amazon Web Services)

10. Integration and Testing

What to Learn:

- Connect your frontend (HTML, CSS, JS) with your backend (Node.js, Express, Database).
- Test your code using unit tests (small parts) and integration tests (connected parts).
- Tools: Jest, Mocha, etc.

11. CI/CD (Continuous Integration and Continuous Delivery)

What to Learn:

- Automatically check your code and deploy it.
- Tools: GitHub Actions, Jenkins, Netlify Build, etc.



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12. Web Security

What to Learn:

- Protect your site from attacks.
- Learn about common problems like:
 - XSS (Cross-site scripting)
 - CSRF (Cross-site request forgery)
 - SQL Injection
- Use HTTPS and secure login systems.

13. Portfolio and Projects

What to Do:

- Make 3 to 5 small and big projects.
- Show your work in a personal website (portfolio).
- Include links to your GitHub and resume.

14. Soft Skills

What to Practice:

- Learn how to work with a team.
- Improve your communication.
- Learn how to ask and answer questions clearly.

15. Frameworks and Libraries

What to Learn:

- Pick tools based on your interest.
- Frontend: React, Tailwind CSS, Bootstrap
- Backend: Express.js, NestJS, Django

16. Practice

Always:

- Keep building small apps and features.
- Join coding contests and open-source communities.
- Solve problems regularly on websites like:
 - LeetCode
 - Codeforces
 - HackerRank

Full Stack

Audience Note

If you are already a full-stack developer you should visit these roadmaps instead.

Frontend

Backend

DevOps

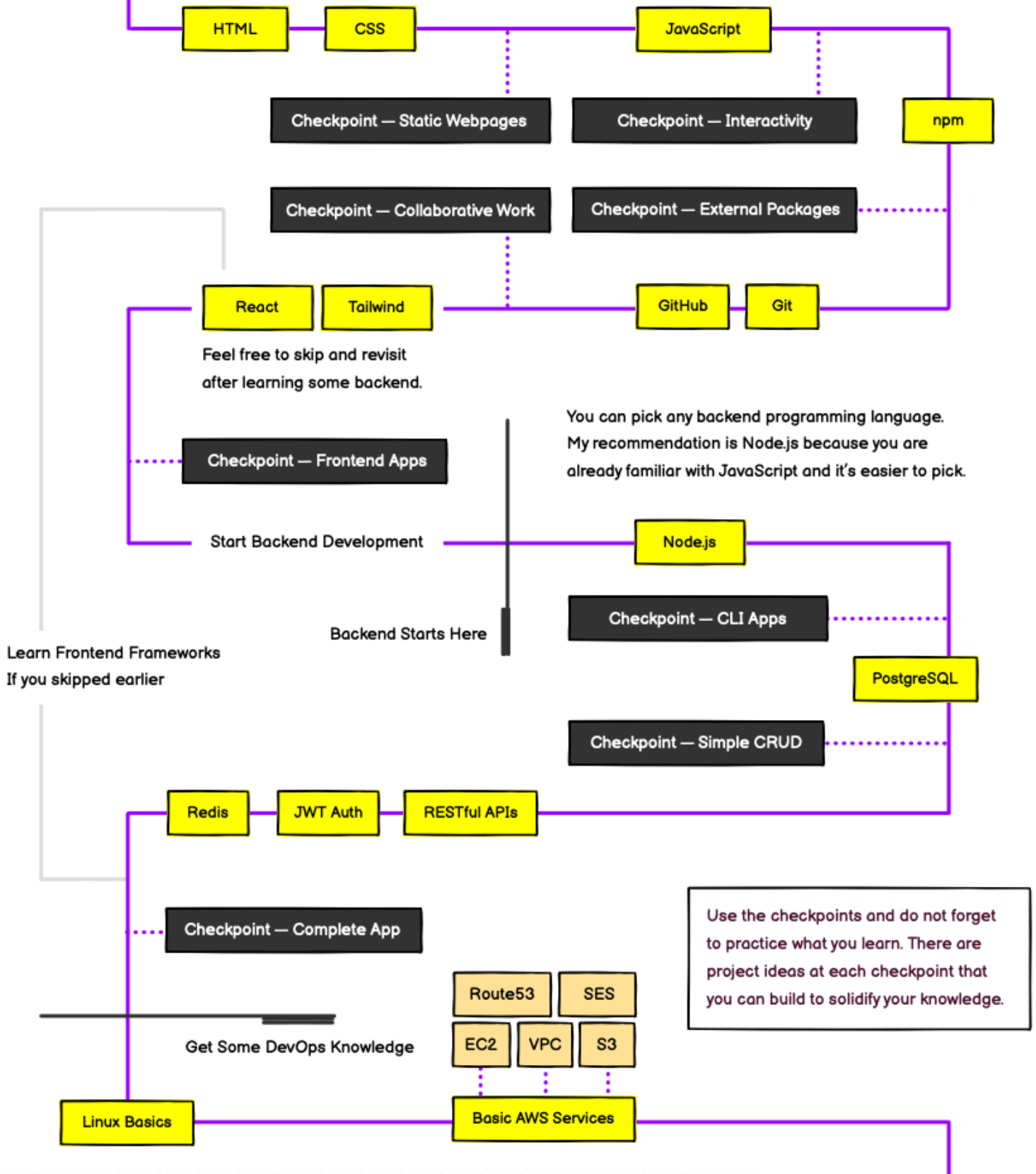
Target audience for this roadmap is absolute beginners wanting to get into full stack development.

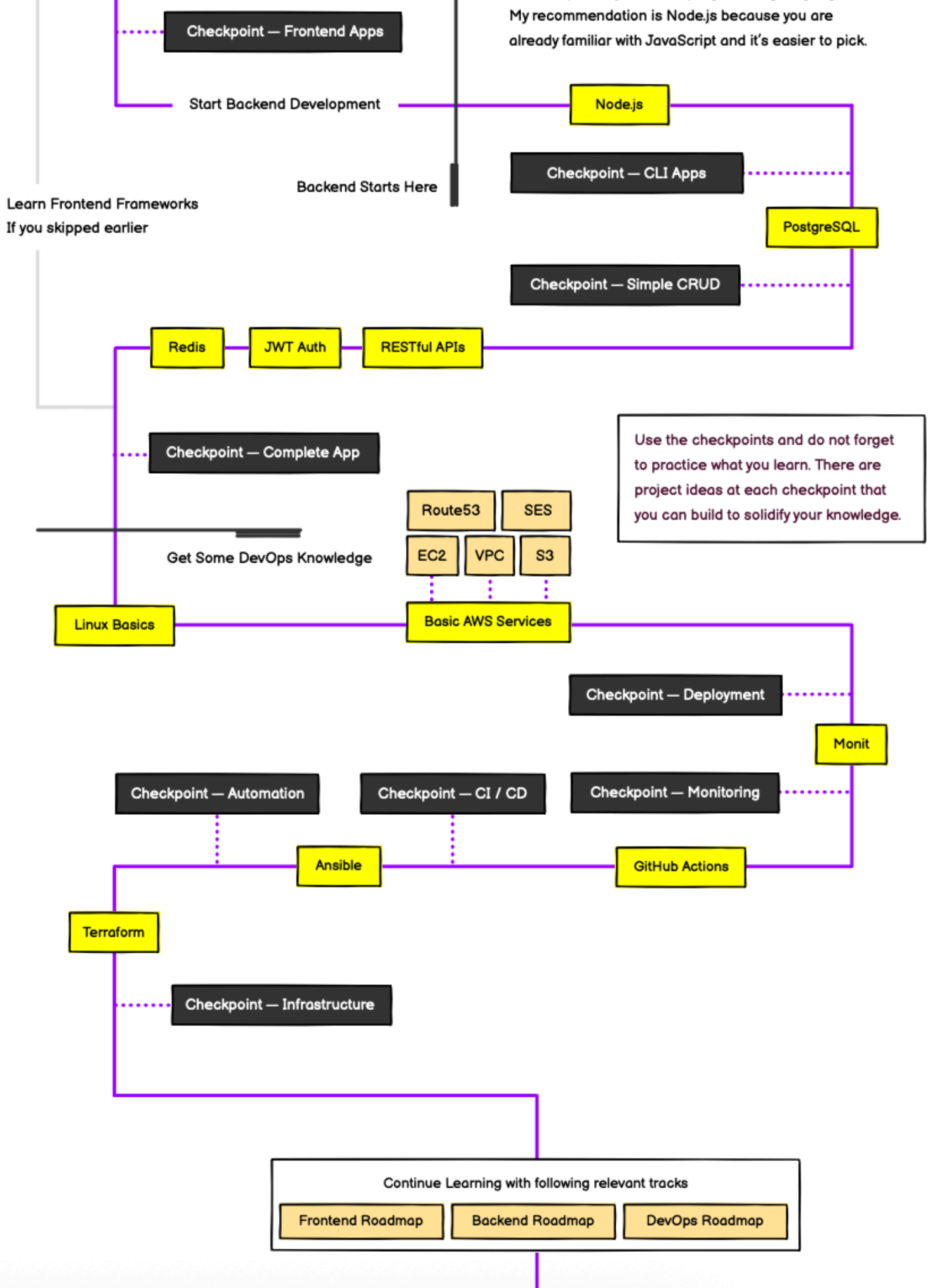
Find the detailed version of this checklist
With details on how to implement these

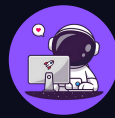
<https://roadmap.sh>

- Project Ideas Inside
- Key topics to learn
- Change of Domain

Roadmap by:
Roadmap.sh







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