

## Personal Roadmap for Akkyy

### Career path: Junior Web Developer (Frontend)

Akkyy, you are a BCA Final Year student from Jaunpur with a strong interest in coding. This 20-week roadmap will take you from foundational HTML/CSS to building real React projects, preparing you for a junior frontend developer role with a monthly salary of ₹15,000–₹25,000 at entry level. All resources are free and accessible on a smartphone or laptop.

Duration: 20 weeks • Expected salary: ₹15,000–₹25,000/month

### Week-by-week plan

#### Week 1: HTML Fundamentals

##### Goals:

- Understand the structure of a webpage using HTML tags
- Build a simple personal profile page using headings, paragraphs, images, and links

##### Resources:

→ HTML Tutorial for Beginners in Hindi - CodeWithHarry (youtube) — <https://www.youtube.com/watch?v=BsDoLVMnmZs>

→ HTML Full Course - freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=pQN-pnXPavG>

Practice: Build a static personal profile page with your name, photo, interests, and contact links using only HTML and save it as index.html

#### Week 2: CSS Basics – Styling Web Pages

##### Goals:

- Apply colors, fonts, margins, padding, and borders using CSS
- Understand the CSS box model and how elements are spaced

##### Resources:

→ CSS Tutorial in Hindi - CodeWithHarry (youtube) — [https://www.youtube.com/watch?v=Edsxf\\_NBFrw](https://www.youtube.com/watch?v=Edsxf_NBFrw)

→ CSS Box Model Explained - Traversy Media (youtube) — <https://www.youtube.com/watch?v=rIO5326FgPE>

Practice: Style your Week 1 profile page with CSS — add a color scheme, custom fonts from Google Fonts, and consistent spacing

#### Week 3: CSS Flexbox and Layouts

##### Goals:

- Use Flexbox to create responsive navigation bars and card layouts
- Understand the difference between block, inline, and flex display types

##### Resources:

→ Flexbox CSS in 20 Minutes - Traversy Media (youtube) — <https://www.youtube.com/watch?v=JJSoEo8JSnc>

→ Flexbox Froggy - Interactive Game (other) — <https://flexboxfroggy.com/>

Practice: Create a 3-column portfolio card layout using Flexbox showing 3 imaginary projects with title, description, and a button

## Week 4: Responsive Design and CSS Grid

### Goals:

- Make web pages mobile-friendly using media queries
- Build a two-column layout using CSS Grid

### Resources:

- Responsive Web Design Tutorial - Kevin Powell (youtube) — <https://www.youtube.com/watch?v=srvUrASNj0s>
- CSS Grid Crash Course - Traversy Media (youtube) — <https://www.youtube.com/watch?v=0xMQfnTU6oo>

Practice: Make your portfolio card layout fully responsive — it should look good on both mobile and desktop screen sizes

## Week 5: JavaScript Basics – Variables, Functions, and Logic

### Goals:

- Understand variables, data types, operators, and conditionals in JavaScript
- Write basic functions that take input and return output

### Resources:

- JavaScript Tutorial in Hindi - CodeWithHarry (youtube) — <https://www.youtube.com/watch?v=ER9SspLe4Hg>
- JavaScript Basics - freeCodeCamp (other) — <https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/>

Practice: Build a simple age calculator — take birth year as input and display the person's current age using JavaScript

## Week 6: JavaScript DOM Manipulation

### Goals:

- Select and modify HTML elements using JavaScript DOM methods
- Handle user events like button clicks and form submissions

### Resources:

- JavaScript DOM Manipulation - freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=5fb2aPlgoys>
- DOM Events in JavaScript - Akshay Saini (youtube) — <https://www.youtube.com/watch?v=QE1YQnhntgw>

Practice: Build an interactive to-do list app where users can add, mark as done, and delete tasks — all using plain JavaScript

## Week 7: JavaScript ES6+ Modern Features

### Goals:

- Use arrow functions, template literals, destructuring, and spread operators
- Understand let, const, and scope differences in modern JavaScript

### Resources:

→ ES6 JavaScript Tutorial – Traversy Media (youtube) — [https://www.youtube.com/watch?v=NCwa\\_xi0Uuc](https://www.youtube.com/watch?v=NCwa_xi0Uuc)  
→ JavaScript ES6 Modules – Akshay Saini (Namaste JS) (youtube) — <https://www.youtube.com/watch?v=ip9QOs5TMak>  
Practice: Refactor your Week 6 to-do list app to use ES6+ syntax — replace var with let/const, use arrow functions and template literals

## Week 8: Git and GitHub – Version Control Basics

### Goals:

- Initialize a Git repository and make commits with meaningful messages
- Push your projects to GitHub and understand branches

### Resources:

→ Git and GitHub Tutorial in Hindi – CodeWithHarry (youtube) — <https://www.youtube.com/watch?v=gwWKnnCMQ5c>  
→ Git Tutorial for Beginners – freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=RG0j5yH7evk>

Practice: Upload all your projects from Weeks 1–7 to a single GitHub repository with a proper README describing each project

## Week 9: Introduction to React – Components and JSX

### Goals:

- Set up a React project using Vite and understand the component-based structure
- Write functional components using JSX and render them to the browser

### Resources:

→ React JS Tutorial in Hindi – CodeWithHarry (youtube) — <https://www.youtube.com/watch?v=RGKi6LSPDLU>  
→ React JS Crash Course 2024 – Traversy Media (youtube) — <https://www.youtube.com/watch?v=LDB4uaJ87e0>

Practice: Build a static React app with at least 4 components — Header, Hero, Projects, and Footer — resembling a portfolio homepage

## Week 10: React State and Props

### Goals:

- Use the useState hook to manage dynamic data inside components
- Pass data between parent and child components using props

### Resources:

→ React useState Hook Explained – Akshay Saini (youtube) — <https://www.youtube.com/watch?v=O6P86uwfdR0>  
→ React Props and State – freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=w7ejDZ8SWv8>

Practice: Build a React-based counter app and a color theme switcher (light/dark toggle) using useState

## Week 11: React useEffect and Fetching Data from APIs

### Goals:

- Use useEffect to run side effects like API calls when a component loads
- Fetch and display data from a free public API using fetch()

## Resources:

- React useEffect Explained - Akshay Saini (youtube) — <https://www.youtube.com/watch?v=0ZjgIjIuY7U>
- Fetch API in JavaScript - Web Dev Simplified (youtube) — <https://www.youtube.com/watch?v=cuEtnrL9-H0>

Practice: Build a React app that fetches and displays a list of users from <https://jsonplaceholder.typicode.com/users> with their name, email, and city

## Week 12: React Router – Multi-page Applications

### Goals:

- Install and configure React Router v6 in a React project
- Create multiple pages (Home, About, Projects, Contact) with navigation

### Resources:

- React Router v6 Tutorial - Web Dev Simplified (youtube) — <https://www.youtube.com/watch?v=Ul3y1LXzdzU>
- React Router Crash Course - Traversy Media (youtube) — [https://www.youtube.com/watch?v=Law7wfdg\\_Is](https://www.youtube.com/watch?v=Law7wfdg_Is)

Practice: Convert your Week 9 static portfolio into a multi-page React app with React Router — Home, Projects, and Contact pages

## Week 13: Tailwind CSS – Rapid Styling in React

### Goals:

- Install Tailwind CSS in a React/Vite project and understand utility-first classes
- Rebuild a component (e.g., a card or navbar) using Tailwind instead of plain CSS

### Resources:

- Tailwind CSS Tutorial in Hindi - CodeWithHarry (youtube) — [https://www.youtube.com/watch?v=\\_9mTJ84uL1Q](https://www.youtube.com/watch?v=_9mTJ84uL1Q)
- Tailwind CSS Crash Course - Traversy Media (youtube) — <https://www.youtube.com/watch?v=dFgzHOX84xQ>

Practice: Redesign your portfolio homepage using Tailwind CSS classes — make it clean, responsive, and professional-looking

## Week 14: JavaScript Async/Await and Error Handling

### Goals:

- Understand Promises and rewrite fetch calls using async/await syntax
- Handle API errors gracefully using try/catch blocks

### Resources:

- Async Await JavaScript - Akshay Saini (Namaste JS) (youtube) — [https://www.youtube.com/watch?v=V\\_Kr9OSfDeU](https://www.youtube.com/watch?v=V_Kr9OSfDeU)
- JavaScript Promises - freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=DHvZLI7Db8E>

Practice: Build a weather app using the Open-Meteo free API (no key needed) that shows current temperature and weather condition for any city

## Week 15: Building a Full Mini-Project – Blog or News App

### Goals:

- Combine React, Tailwind, React Router, and API fetching in one complete project

- Implement search or filter functionality on a list of fetched items

### Resources:

- React Project - News App Tutorial - JavaScript Mastery (youtube) — <https://www.youtube.com/watch?v=I2UBjN5ER4s>
- Build and Deploy a React App - freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=b9sMIPjmAis>

Practice: Build a React blog/news app that fetches articles from a free API, has a search bar to filter results, and uses Tailwind for styling

## Week 16: Deploying Projects - GitHub Pages and Vercel

### Goals:

- Deploy a React project live on Vercel with a shareable URL
- Deploy a plain HTML/CSS project on GitHub Pages

### Resources:

- Deploy React App on Vercel - Traversy Media (youtube) — <https://www.youtube.com/watch?v=TJIXpnXInRo>
- GitHub Pages Deployment Tutorial - freeCodeCamp (youtube) — <https://www.youtube.com/watch?v=SKXkC4SqtRk>

Practice: Deploy your portfolio React app on Vercel and your to-do list on GitHub Pages — note both live URLs to add to your resume

## Week 17: Resume, LinkedIn, and Freelance Profile Setup

### Goals:

- Create a one-page developer resume highlighting BCA education, skills, and projects
- Set up a LinkedIn profile and a Fiverr or Internshala profile for job/gig hunting

### Resources:

- How to Make a Developer Resume - TechWorld with Nana (youtube) — <https://www.youtube.com/watch?v=J5gy9iqjwXM>
- How to Get Freelance Projects on Fiverr - Hindi (youtube) — <https://www.youtube.com/watch?v=1VoFEr4cNBY>

Practice: Complete your LinkedIn profile with a professional photo, 3 project links, skills section, and send 10 connection requests to developers from UP

## Week 18: Introduction to Node.js and Express (Backend Basics)

### Goals:

- Set up a Node.js + Express server and create basic REST API routes
- Understand GET and POST requests and test them using a browser or curl

### Resources:

- Node.js Tutorial in Hindi - CodeWithHarry (youtube) — <https://www.youtube.com/watch?v=BLI32FvcdVM>
- Express JS Crash Course - Traversy Media (youtube) — <https://www.youtube.com/watch?v=L72fhGm1tFE>

Practice: Build a simple Express API with GET /students and POST /students routes that return and accept student data as JSON

## Week 19: Capstone Project - Full Personal Portfolio Website

## Goals:

- Build a complete, deployable portfolio website showcasing all projects from this roadmap
- Include an About section, Projects section with live links, Skills section, and Contact form

## Resources:

→ Portfolio Website in React + Tailwind - JavaScript Mastery (youtube) — [https://www.youtube.com/watch?v=OPaLnMw2i\\_0](https://www.youtube.com/watch?v=OPaLnMw2i_0)

→ React Contact Form with EmailJS (Free) - Web Dev Simplified (youtube) — <https://www.youtube.com/watch?v=NgWGII0jkbs>

Practice: Build and deploy your final portfolio on Vercel showcasing at least 4 projects — share the link on LinkedIn with a post about your 20-week journey

## Week 20: Job Applications, Interview Prep, and Next Steps

### Goals:

- Apply to at least 10 junior frontend developer or internship roles on Internshala, LinkedIn, and Naukri
- Practice 20 common JavaScript and React interview questions

### Resources:

→ Top 50 JavaScript Interview Questions - Akshay Saini (youtube) — <https://www.youtube.com/watch?v=t0M1LZiLJE>

→ React Interview Questions - Roadside Coder (youtube) — <https://www.youtube.com/watch?v=XBTDpT2XaI>

Practice: Apply to 10 jobs/internships on Internshala and LinkedIn, prepare answers to 20 JS/React interview questions, and do one mock interview with a friend or record yourself answering