

# ☒ React + Firebase Web Developer Roadmap (8–10 Weeks)

## ☒ Prerequisites

Before diving in:

- Basic HTML, CSS, JS
- ES6+ (arrow functions, destructuring, promises)
- Git & GitHub basics

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## ☒ Weekly Breakdown

### ☒ Week 1–2: React Fundamentals

Build strong React foundations.

- JSX, Components, Props
- State, Events
- Conditional Rendering
- Lists and Keys
- Forms and controlled components
- useState and useEffect hooks

☒ Project: Simple Todo App (Local state)

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## ☒ Week 3: Advanced React

- Component reusability
- Custom Hooks
- Context API for global state
- React Router DOM
- Basic form validation

☒ Project: Multi-page blog website (no backend yet)

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## ☒ Week 4: Firebase Fundamentals

Start using Firebase as your backend-as-a-service.

- What is Firebase?
- Firebase Console setup
- Firebase SDK integration with React
- Firebase Authentication
  - Email/password
  - Google login

📁 Project: Login/signup system with Firebase Auth

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## 📁 Week 5: Firebase Firestore Database

Learn how to store and fetch real-time data.

- Firestore structure (collections & documents)
- Add, read, update, delete (CRUD)
- Real-time listeners
- Security rules basics

📁 Project: Notes App with login and real-time saving

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## 📁 Week 6: Firebase Storage & Hosting

- Upload images or files
- Fetch/download files
- Firebase Hosting
  - Deploying your React app
  - Custom domain setup

📁 Project: Image Gallery with upload, view, and delete

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## 📁 Week 7: User Management & Roles

- Restrict access based on roles
- Secure Firestore reads/writes
- Update user profiles
- Protected routes in React

📁 Project: Admin Dashboard (view/edit/delete users)

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## 📁 Week 8–9: Full App Development

Build a full app using everything you've learned.

## ☒ Capstone Project Ideas:

- **Blog Platform** (auth, posts, comments)
- **eCommerce App** (products, cart, checkout)
- **Portfolio CMS** (add projects from dashboard)
- **Chat App** (real-time messages + user login)

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## ☒ Tools & Tech Stack

Tool	Use
React	Frontend



Firebase Auth	Login & Signup
Firebase Firestore	Database
Firebase Storage	File uploads
Firebase Hosting	Deployment
React Router	Page navigation
Tailwind or CSS modules	Styling
Formik/Yup	Form validation (optional)

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