

Subjects to Continue Exploring

Advanced HTML / CSS

- Progressive Web Apps - Built sites that can be installed "like an app" on phones / tablets
- ARIA Accessibility - Improve access to people using assistive technologies
- Semantic HTML - Use tags and attributes that convey meaning
- Responsive Images - Load images dependent on screen type
- Audio and Video tags for rich media embedded in pages
- CSS Grid Layout
- Z-index for content stacking control
- CSS Animations

HTML API Scripting

- fetch - make HTTP requests in JavaScript without page reloads
- localStorage - key-value persistent storage a web browser maintains
- indexeddb - document database in the web browser
- service workers - create rich offline client-side applications
- web workers - run computationally expensive JS tasks in background threads
- touch events - make client-side experiences better on phones/tablets
- web sockets - create a long lived, bi-directional connection to a server for "server push"
- Many more! <https://developer.mozilla.org/en-US/docs/Web/API>

Client-side Web Frameworks

- React (for views)
- Angular - Model and Views
- Vue.js - HTML, CSS, JS components

HTTP Protocol

- HTTPS (Secure Connection) Certificate
 - Explanation of HTTPS
 - Service to get a free certificate: <https://letsencrypt.org/>
 - Steps for using HTTPS in node.js/express
- Cross-Origin Resource Sharing - Share resources across domains
- Content Security Policy
- Caching - Overview of caching and related headers
- HTTP Authorization - Basic, Bearer
- Evolution of HTTP

Server-side Application Development

- Idempotence of GET, PUT, and DELETE HTTP method requests
- Implement RESTful APIs
- OAuth2 for 3rd party identity management/integration - (Google/FB login)
- Multi-part request handling - allow file uploads in your web app
- Web sockets for rich communication between server and client
- Data validation and sanitization for user inputs

DevOps

- The 12 Factor Application
- Serverless Application Development (AWS Lambda, Netlify Functions)
- Containers and Docker
- Web Server / Reverse Proxy: nginx
- Web Caching Server: <https://varnish-cache.org/>