

Week 1:

React:

- Learning Javascript and JSX
- Communicating Props
- Class Based Components in React
- States in Components

Node.js

- Going over NPM and Modules
- Using Express to build RESTful APIs

Week 2:

React:

- Going Over Lifecycle methods and its importance
- Forms and events with user input

Node.js

- Diving into Express
- Learning Asynchronous Javascript: callbacks, promises, async , await, etc

Week 3:

React:

- Styling in React.js
- Making API Calls in React
- Lists and Lists of Components in React

Node.js

- Learning about MongoDB and the C.R.U.D model
- Data validation

Week 4:

React:

- Introduction to Redux
- Integrating Redux and React together Part 1

Node.js

- Modeling Relationships between Connected Data
- Authentication and Authorization

Week 5:

React:

- Integrating Redux and React together Part 2
- Async Actions in Redux
- Redux Store Design Introduction

Node.js

- Handling Errors and Logging in MongoDB
- Authentication and Authorization

Week 6:

React:

- Redux Store Design Part 1
- Redux Store Design Part 2

Node.js

- Unit Testing
- Integration Testing your APIs and mock Database

Week 7:

React:

- React Router
- Authentication in React Part 1

Node.js

- Going Deeper in Backend Development
- Looking into Server-Side Framework

Week 8:

React:

- How To Use Redux Dev Tools
- Forms in Redux
- Introduction to RESTful based React Apps

Node.js

- Going into JSON
- Using more in depth Mongoose Example

Week 9:

React:

- Introduction to RESTful based React Apps Part 1
- Introduction to RESTful based React Apps Part 2

Node.js

- Handling File Uploads in Node.js
- Creating Login/logout to learn about user authentication in the back end

Project: Start the team project

Week 10:

React:

- Modals in React
- Learning about Hooks in React

Node.js

- Deploying to a server

Project: Work on team project

Week 10:

- React Concept Review
- Starting Internship project

Project: Work on team project

Week 11:

- React Concept Review
- Back-end Review
- Internship project design

Project: Work on team project

Week 12-Week 20:

- Complete team project
- Next.js tutorial
- Auth0 Authentication
- Looking into AWS services to prepare for summer internship project
 - EC2 Instances
 - AWS Code Pipelines
 - AWS S3
 - AWS Lambda Functions
 - AWS Elastic Beanstalk
 - AWS Cognito
 - AWS DynamoDB
 - Amazon Route 53
 - AWS Shield
 - AWS Amplify
 - AWS Lambda