

My Time at



Data & Technology Services
Austin Transportation

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Internship Timeline

01

First 3 weeks

Getting Acquainted with
the Different projects

02

Second 3 weeks

Starting to make
frequent contributions

03

Third 3 weeks

Feeling settled and handling
multiple responsibilities

04

Final Week

Wrapping up and
handing off work

01.

My First 3 Weeks

Getting Acquainted with the different projects

- Creating my first issue
- Learning about the different projects
- Making contributions to the DTS website, Micromobility, Vision Zero Viewer, Socrata

02.

My Second 3 Weeks

Starting to Make Frequent Contributions

- Started making contributions to Moped
- Conduct usability testing with Patrick and Janet
- Learned about the user story process
- Started learning Next.js

What is Next.js?

Next.js is a React framework that allows you to create web applications that contain both server-rendered and statically generated pages.

What are the benefits?

- Reduces setup time
- Improve Search Engine Optimization
- Improve metrics such as time to first draw (TTFD), code splitting

Differences between Create React App and Next.js

- File structure
- No react-router-dom
- Next.js is isomorphic
- Almost everything is configurable

File Structure

```
> .next
✓ components
  > contexts
  > productsView
  > projectsView
  > shared
  > wrappers
  > node_modules
✓ pages
  > about
  ✓ products
    ✓ [issue_number]
      JS index.js
      JS index.js
    > projects
    JS _app.js
    JS index.js
  > public
  > src
  > styles
  .gitignore
  {} package-lock.json
  {} package.json
  README.md
```

Next.js

```
> node_modules
> public
✓ src
  > scss
  > shared
  > views
  JS App.js
  JS App.test.js
  JS index.js
  logo.svg
  JS serviceWorker.js
  JS setupTests.js
  .gitignore
  {} package-lock.json
  {} package.json
  README.md
```

Create React App

Example Create React App Code

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';
import * as serviceWorker from './serviceWorker';

ReactDOM.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
  document.getElementById('root')
);

// If you want your app to work offline and load faster, you can change
// unregister() to register() below. Note this comes with some pitfalls.
// Learn more about service workers: https://bit.ly/CRA-PWA
serviceWorker.unregister();
```

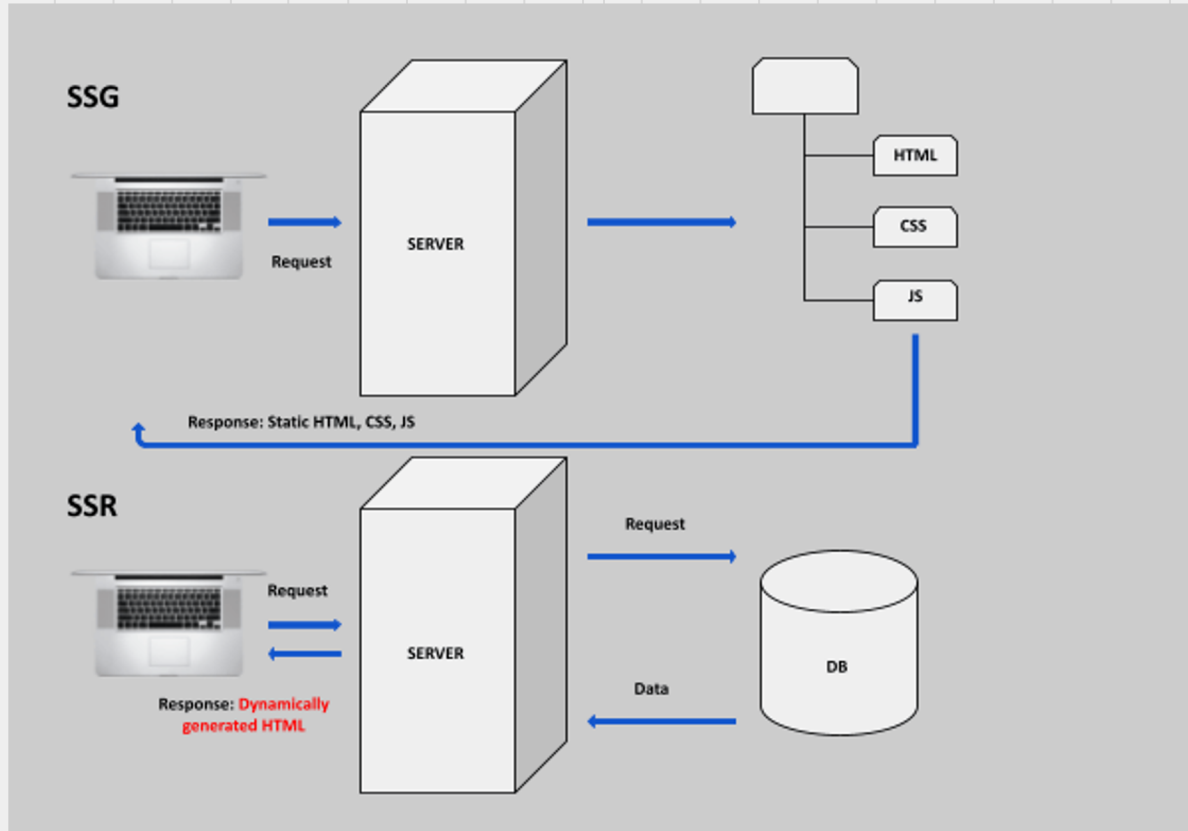
Example Next.js Code

```
import React from "react";
import Row from "react-bootstrap/Row";
import Col from "react-bootstrap/Col";
import Image from "react-bootstrap/Image";
import { FaGlobe, FaUsersCog, FaBusinessTime } from "react-icons/fa";
import { MdWeb } from "react-icons/md";

import IssuesContext from "../components/contexts/IssuesContext";
import Page from "../components/shared/Page";
import IndexIssueListItem from "../components/shared/IndexIssueListItem";

function ServiceItem(props) {
  const { icon, content } = props;
  return (
    <Col md={3} className="pb-4">
      <Row>
        <Col xs="auto" className="pr-0">
          <span style={{ color: "#00bfa5" }}>
            <h1>{icon}</h1>
          </span>
        </Col>
        <Col>
          <h5>{content}</h5>
        </Col>
      </Row>
    </Col>
  );
}
```

Next.js Page Rendering



03.

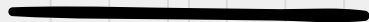
My Third 3 Weeks

Feeling Settled and Having Multiple Responsibilities

- Started converting the DTS website to Next.js
- Narrowing my focus on Moped
- Planning for life after the internship

04.

Final Week



Final Week

- Documenting my Next.js code
- Finishing up remaining tickets

Highlights

- Working with a supportive group of people
- Working on meaningful projects
- Dev sync

What I learned

- Software engineering practices/conventions
- How to write better code
- I learned about Vision Zero and the objectives of ADT