Arunabh Saikia

Front-End Software Engineer

asaikia1@hawk.iit.edu | 312-539-7699 | arunabhsaikia.com | github.com/arsaikia

Relevant Experience

Front End developer @ ManifestHQ, Inc.

May 2020 - Present // Chicago, IL

- Developed a responsive web application for users to transfer their 410k retirement funds which reduced transfer time by 80% compared to traditional methods.
- Worked with a variety of languages, frameworks and libraries including JavaScript, TypeScript, React, Node.js, Styled Components, Jest, Enzyme etc.
- Designed a UI library for the reusable components hosted as a npm package. While continuous deployment of the application was handled using a Bitbucket to AWS S3 pipeline.
- Introduced testing using Jest and Enzyme with 80% test coverage for the UI library and 40% coverage for the client application.
- Communicated with the CTO and UX team regularly and translated business requirements to technical specifications.

Software Engineer @ IBM

Mar 2016 - July 2019 // Bangalore, India

- 3.5 years' experience with complete software development lifecycle using Agile Methodologies
- Developed multiple applications using Micro-Services architecture and Object-Oriented design in Python and Java
- Collaborated with the in-house development of a new web automation framework for a Telecom Client which shortened the testing time by 70%
- Authored and implemented a custom Data Management Tool that minimized data validation time by 90%
- Coached and mentored 5 team members, including conducting performance reviews

Skills

Programming Languages

JavaScript (ES6), TypeScript, HTML, CSS, Sass, GraphQL, Python, Java

Libraries & Frameworks

React, MERN stack, Express.js, Node.js, Python Django, Redux, jQuery, Material UI, Bootstrap, Jest, Enzyme, Java Spring MVC, Styled Components

Tools & Platforms

Git, Webpack, Netlify, Heroku, Firebase, AWS Amplify, S3, Storybook

Education

Illinois Institute of Technology

2019 - 2021 // Chicago, IL

Master of Science in Computer Science

GPA: 3.7/4.0

Interests

Singing, Guitar, Speed Cubing, Gaming

Projects

Manifest Client Portal

- Built a responsive Mobile-first web app using React and optimized reusable components complete with 60% test coverage using Jest & Enzyme.
- 100% functional components combined with react hooks for state management, react router for navigation, axios for HTTP requests to backend.
- Each screen component of the application is split into 2 files – a view and a controller where the view contains JSX and styled components related to the UI and the controller homes the render logic, functions, API calls and component level states.
- Continuous deployment is set up using a bitbucket to AWS S3 pipeline. The UI library components are also on Storybook which stays in sync with npm.

Pathfinding Visualizer

- React web app built using Sass, Material UI and deployed to Netlify that visualizes the shortest path between a movable source and destination.
- Application currently maintains these 5 algorithms - Dijkstra, Bellman Ford, Breath First Search, Depth First Search and A Star.
- The animation has 5 adjustable speed settings, and obstructions can be placed in the grid that the algorithm must avoid when finding the shortest path.

Contact Keeper

- A MERN Stack application to store contact details deployed to Heroku that uses JWT web token for secure user authentication.
- The mobile first, responsive web application has 4 operations: add, update, edit and delete a contact information.
- Each user's data is privately stored which is only visible through their account by using one of the 10 APIs REST APIs.

Algorithm Visualizer

- A web application build with styled components, Material UI hosted in GitHub Pages that demonstrates how a sorting algorithm sorts through an array.
- Application supports 4 of the most common algorithms - Bubble Sort, Selection Sort, Merge Sort and Quick Sort with adjustable animation speed
- Generate any random array of length 10 to 185 with delay option in range 0.01ms to 200ms corresponding to the pause between every sorting step.