Arunabh Saikia

Full–Stack Software Engineer

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Relevant Experience

Front End developer @ ManifestHQ, Inc.

May 2020 - Present // Chicago, IL

▹ Developed a responsive web application for users to transfer their 401k 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 and user 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 apps 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 a custom Data Management Tool that minimized data validation time by 90%

Project Reviewer and Classroom Mentor @ Udacity

Feb 2017 - July 2019 // Bangalore, India

▹ Reviewed student projects as a project reviewer for Udacity's Data Scientist Nanodegree.

▹ Improved student engagement and graduation rate by mentoring students in batches of 30.

Skills

Programming Languages

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

Libraries & Frameworks

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

Tools & Platforms

Git, Netlify, Heroku, Firebase, AWS

Education

Illinois Institute of Technology

2019 - 2021 // Chicago, IL

Master of Science in Computer Science

GPA: 3.7/4.0

Certification

Machine Learning Engineer Nanodegree, Udacity

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.

▹ Organized each screen component of the application into 2 files – a view and a controller where the view comprises of JSX and styled components related to the UI and the controller homes the render logic, functions, API calls and component level states.

▹ Set up a continuous deployment pipeline from bitbucket to AWS S3. The UI library components are also on Storybook which stays in sync with npm.

Pathfinding Visualizer

▹ Implemented a react web app using Sass, Material UI, deployed to Netlify that visualizes the shortest path between a movable source and destination.

▹ Restructured the application to maintain 5 common graph traversal methods - Dijkstra, Bellman Ford, Breath First Search, Depth First Search and A Star.

▹ Crafted the application with 5 adjustable animation speed settings and obstructions on the grid originated on click that the shortest path avoids.

Contact Keeper

▹ Deployed a full stack MERN application to Heroku that provides 4 operations to a registered user - add, edit, delete or filter stored contact information.

▹ The mobile first, responsive web application manages state using Context API and useReducer hooks and JWT for authentication and protected routes.

▹ The class-based UI components interacts with the backend through 10 REST APIs written in Express.js that stores the data in MongoDB Atlas.

Algorithm Visualizer

▹ Built a web application, hosted on GitHub Pages that demonstrates the working of a sorting algorithm on an array.

▹ Application supports 4 of the most common algorithms - Bubble Sort, Selection Sort, Merge Sort and Quick Sort with adjustable animation speed.

▹ Supports 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.