

Satish Rella

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🔗 <https://github.com/satish112?tab=repositories>

EDUCATION

Master's, Computer Science (AI & ML),
University of Texas at Arlington

Jan 2019 – Dec 2020
Arlington, United States

PROFESSIONAL EXPERIENCE

Google, Software Engineer

Oct 2021 – present
California, United States

- Implemented a Single Page Application using React-Router, incorporating React JS components with features such as Forms, Events, Keys, Animations, and the Flux architecture.
- Ran rigorous testing and debugging using Jest and Enzyme which drastically decreased application errors by 40%.
- Implemented Redux and Redux-Saga for state management, optimizing application performance and reducing load times by 35%.
- Built and maintained scalable backend services using Node.js and Express, optimizing API performance and integrating with various third-party services.
- Developed and deployed RESTful APIs with Node.js, ensuring efficient data handling and seamless communication between frontend and backend systems.

Wells Fargo, Software Engineer

Mar 2021 – Sep 2021
Austin, Texas, United States

- Developed an isomorphic, responsive website with React.js that seamlessly serves desktop, tablet, and mobile users.
- Designed and implemented role-based UI screens in React.js, providing personalized interfaces for various user roles, including administrators, managers, and end-users. Developed dynamic forms in React.js to streamline data collection and enhance form validation processes.
- Ensured cross-browser compatibility by testing web applications across major browsers, including Internet Explorer, Firefox, Safari, Opera, and Chrome.
- Implemented backend logic with Node.js to handle user authentication and authorization, integrating with frontend applications to provide a seamless user experience.

Tata Consultancy Services, Software Engineer

Jun 2017 – Dec 2018 | Hyderabad, India

- Designed web pages using HTML, XHTML, CSS, and deployed scripts with JavaScript.
- Developed secure web applications with client-side scripting using JavaScript and jQuery.
- Assisted in the launch of web functionalities that increased visitor retention by 10% through improved navigation and content layout.
- Integrated an A/B testing framework for the front-end team, gaining valuable insights that improved user experience and conversion rates by 10%.

PROJECTS

Food ordering web application (React.js) 🌐

- Developed a food-ordering web application using React.js and styled it with Tailwind CSS.
- Implemented features such as filtering search results, displaying top-rated restaurants, dynamic username management, and app optimization with lazy loading functionality.
- Hosted the application on Netlify Cloud.

Image Caption Generator Using CNN-LSTM

- Extracted the features of every photo from the convolution layers of VGG16 and RESNET50 models.
- Converted the text input to vector using the word embedding layer followed by LSTM.
- Predicted the caption of photo by merging the feature and word embedding vectors, processed by a dense layer

NetflixGPT (Single Page Application)

- Developed a Netflix clone using React.js and Tailwind CSS, integrating the ChatGPT API to provide results based on user input.
- Created sign-in and sign-up forms, managing authentication with Firebase as the backend.
- Utilized the TMDB API to access movie data and display movie cards and trailers, and employed Redux for state management.