PRATHEEKSH JOSEPH

LEAD FRONT END ENGINEER

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EDUCATION

Masters in Computer Applications
Aug. 2012 to Jun. 2015
Bangalore University, Karnataka, India.

Bachelor of Science in Mathematics
May. 2009 to Jun. 2012
Kannur University, Kerala, India.

PROFESSIONAL SKILLS

- ReactJS, React Hooks, React Redux.
- Redux Rematch, React Persist, React-D3-Tree.
- Jest Unit Testing for ReactJS Applications.
- Angular 4 and above, Ionic-2.
- WebSockets, Socket.IO.
- JavaScript, Typescript.
- Java basics, OOPS concept.
- Web Components.
- HTML5 / SCSS.
- Responsive SCSS coding.
- GIT, Bitbucket.
- JIRA, Docker.

CAREER OBJECTIVE

A proven team player and a lead engineer with hands on experience in Front-End Development having more than 7 years of experience in building, developing and managing web applications and programs for various organizations. Interested in a Lead Front End Developer position excited to share my skills, expertise, and experience with an organization that emphasizes sound software engineering practices for the benefit of the organization and personal career growth.

EXPERIENCE SUMMARY

- Work in Agile-driven environment to effectively maintain project timelines and utilize available resources.
- Expert in Front End/User Interface (UI) Technologies that includes HTML4/5 and SASS/SCSS for web.
- Expert in React JS framework to develop SPAs.
- Expert in using React JS components, Forms, Events, Keys, Router, Animations and Redux.
- Expert in React JS for creating interactive UI using One-way data flow model, Virtual DOM and JSX.
- Expert in creating Custom Reusable React Components.
- Expert in Angular and works with organizing project architecture using OOPS concept.
- Expert in SCSS pixel-level layout with CSS flexbox and grid. Consistency with browser versions and platform Independence.
- Expert in UI integration with RESTful web APIs to manage and render data in the front-end.
- Experience in responsive web design using SCSS media queries.
- Experience in using Bootstrap plugins for building carousel, accordion, modal windows etc.
- Experience in Core CSS and key concepts including positioning, text, border, margin, padding, table, pseudo classes and elements and behaviors.
- Work with front-end validations in Angular and React JS.
- Experience in creating and reviewing UI design specifications, prototype development and conducting usability tests to ensure quality assurance.
- Experience in working with various IDE's such as Eclipse, Sublime, VS Code and Notepad++.
- Extensively use code versioning tools like GitHub, Bitbucket and SVN.
- Experience in setting up backend environment using Express.js and Node.js
- Experience in unit testing using Jest for React JS.
- Experience in working with DevOps team to deploy UI code builds to AWS EC2 instance to run React JS application in staging and prod environment.
- Experience in deploying build files for Angular 5+ applications to IIS server with NGINX.

Lead Frontend Engineer

QBurst | February 2020 - Till date

Projects Handled :-

MessageBOX : MessageBox is a web application running across multiple domains which helps users to manage large hotels. The app allows hotels to manage all Guest Requests and Hotel Internal Tasks to ensure the highest level of Guest Satisfaction. Everything in MessageBox is chat based. In addition to normal communication, every request or job is in form of an easy to understand chat message. A Supervisor or a Runner can manage all the jobs with simple dashboards which provides complete status of every job. A variety of reports based on all types of guest requests are readily available for download. Conduct analysis of efficiency with ease with our Productivity reports.

Frontend : ReactJS, React Hooks, Redux Rematch, React Redux, Webpack, Sentry, HTML5, SCSS, Socket.IO (Real Time Events).
Backend : PHP-Laravel, PostgreSQL, Lambda, AWS-EC2, Jenkins.

OMICON : OMICON is a portal for the collaborative study of biological systems using omics data. It was created by The Oldham Lab, which is part of the Department of Neurological Surgery at UCSF. The purpose of this project is to ensure that the solution built will create the foundation for storing large number of files, produced as a result of laboratory research work. The application will easily enable search, retrieval, sharing and repackaging of digital assets of biological systems and allow for collaboration between researchers with partial read or write access to various folders and files within a project.

Frontend : ReactJS, React Hooks, React Persist, React Redux, HTML5, SCSS, WebSockets,
React-D3-Tree, React-Error-Boundary.
Backend : Python, Elastic Search, AWS, AWS-S3, PostgreSQL.

Roles and Responsibilities :-

OMICON

- Develop and improvise front-end code architecture.
- Collaborate with Backend Architects to provide enhanced solutions through iterative design output.
- Follow the best practices by adding reusable React Functional Components to reduce code complexity.
- Work with the DevOps team to deploy the application in staging environment.
- Work with functional components with React Hooks to handle the life cycle events.
- Extensively use React-Redux for State management across the application for data communication with redux packages including reselect, react-redux and redux-persist to maintain structured selectors for components to map state to props and dispatch data to be fetched and caught from any corner of the application.
- Create reusable, responsive and customizable OMICON grid component that works across the application in different forms based on the type of results needed to be displayed in different modules of the application.
- Implement Grid UI rendering based on properties provided as an input to reusable components to display features such as Frontend and Backend Sorting enabling pagination to view the entire set of records displayed.
- Work with SCSS coding for styling with css flexbox and css grid for responsiveness.
- Create reusable Form-Input component that accepts input as props to render styled fields based on the wireframes and designs provided by the UX designer through Invision App. This includes customized fields like: -
  - Single select dropdown.
  - Multi select dropdown with inbuilt search feature that filters front-end data and handles data with API calls on search filter function created within the multi select dropdown (using debounce feature for API calls to avoid API hits per character).
  - Text fields and Numeric fields.
  - Validation and Styling for form fields as per the design.
- Create reusable Modal Component based on the specifications by UX design.
- Apply customization for a network tree module data population with CSS and SVG for browser compatibility using React D3 Tree library of D3.js.
- Use React-Router to switch between components with pages along with search parameters.
- Work with Restful web services API calls for CRUD operations.
- Develop and apply cross platform validation and exception handling policies.
- Involve in daily SCRUM meetings to keep track of the project status.
- Involve in demonstrating UI updates to clients on a bi-weekly basis for status updates and feedbacks.
- Extensive use of Git (Bitbucket) repositories for version controlling and code maintenance.
- Use JIRA as the bug tracking system to track and maintain the history of bugs / issues on a daily basis.
- Write codes to handle cross browser compatibility issues in Chrome, Firefox, Microsoft Edge, Brave and Safari.

- Handle file download notifications in the application using WebSockets and used reusable pop-over component to showcase the list of downloadable items in the header section.
- Create, test and deploy an advanced search module in the application with API end points that fetches search results from AWS S3 lambda using elastic search from the backend.
- Advanced search module developed works with the implementation of complex query combinations structured and initiated from the front end with customized query builder tool package to process data in two particular result formats: -
  - Results displayed in data table.
  - Samples represented using colored cohorts.
  - A Ready to display search results keys in notification pop up which when clicked would trigger an API to fetch the results from AWS S3 to resolve data complexity and improve storage efficiency at the front-end.
- Implement reusable data sample color blocks by customizing React JS Tree-Map package to represent data in cohorts with further filtration and re-rendering when drilled down based on API responses.

MessageBox

- Code with functional and design specifications for UI screens of the app through Figma.
- Work with Backend Architects to provide enhanced solutions through iterative design output.
- Work with reusable React Functional Components to minimize code complexity.
- Deploy Frontend code to the test environment via Jenkins and work with the DevOps engineers for production code deployment.
- Work with React Hooks to handle the life cycle events and manage component state.
- Extensively use React-Redux with Redux-Rematch for State management across the application for data communication to maintain structured models for components to map state to props and dispatch data to be fetched and caught from any corner of the application.
- Work with new code implementation strategy with the existing application to build new inventory modules for the application.
- Manage real-time data population to different parts of the application via Socket.IO based on request creation and app actions.
- Work with SCSS coding for styling with CSS flexbox and CSS grid for responsiveness.
- Use Router config to switch between components with version changes to be implemented on specific routes as part of the application revamp.
- Work with Restful web services API calls for CRUD operations.
- Develop and apply cross platform validation and exception handling policies.
- Involve in daily SCRUM meetings to keep track of the project status.
- Involve in demonstrating UI updates and work closely with clients on a daily basis for status updates and feedbacks.
- Extensive use of Git (Bitbucket) repositories for version controlling and code maintenance.
- Use JIRA as the bug tracking system to track and maintain the history of bugs / issues on a daily basis.
- Work with webpack as a tool for bundling and building the application for development and deployment.
- Work on revamping the existing application to its next version release by maintaining the existing models and adding functionalities based on the requirement updates from clients.
- Implement easy adaptive methods to incorporate new features into the existing modules and components as per the change requests.

Software Engineer

ThinkPalm Technologies | March 2018 - January 2020

Projects Handled :-

CATOS – **Cargo Allocation and Tanker Optimization System** is envisioned and developed to allocate Cargo and Tanker optimization in the shipping sector industry. The objective of the system is to develop independent cargo allocation and tanker optimization systems for ships on voyages through different ports.

Frontend : Angular 5, HTML5, SCSS.
Backend : Spring Boot, PostgreSQL, Microsoft Login Services.

SMARTShip : is an IIOT SW platform capable of serving up to 1000's of ships that can connect to all equipment on-board, allows remote monitoring, diagnostics and control, provides descriptive, predictive and prescriptive maintenance, creates operational efficiency for ship staff as well as shore staff, reduces cost and increases ship's life. The SMARTShip platform will offer a central console for ship operators to locally/remotely monitor and control (as available) ship's equipment.

Frontend : Angular 5, Redux, RxJS, HTML5, SCSS, Socket.IO.
Backend : PostgreSQL, Cassandra, NodeJS, Sockets.

Roles and Responsibilities :-

- Responsible for creating efficient design and developing User Interaction screens using HTML5, CSS3, Bootstrap, JavaScript, Angular 5 and Node JS.
- Enhanced application performance by Angular 5 Component based development in view of future Angular framework transitions.
- Experience in creating custom directives, decorators, and services to interface with restful services.
- Implemented Angular Router to enable navigation from one view to the next as customer performs application tasks.
- Used AJAX, JSON to send request to the server to check the functionality of the websites and for storing and exchanging information between browsers and servers.
- Used Ship/Shore data from Redis server processed using python algorithm delivered via Java Spring-Boot API responses to finally render layers of ship cargo with cofferdams in the UI with Angular, SCSS/HTML5.
- Worked on GIT as a version control. Utilized NPM scripts for build and test environments in a Node.js application.
- Designed and developed the application using Agile Scrum methodology by breaking down the project to several sprints.
- Created and refactored a CCTV UI module displayed in cards on the home page and an expanded version of the same to 4th quadrant view with the help of a live Ship/Shore camera URL.
- Served CCTV footage images to the UI per second by providing same amount of hits to the URL with the help of WebSockets to listen to the data pushed from NodeJS for Shore communication and Implementation of the same via Niffy Service and Spring-Boot by dispatching data from Cassandra Database via NodeJS WebSockets to finally listen to the data subscribed in WebSockets at the frontend using Socket.IO package.
- Created Typescript reusable components and services to consume REST API's using Component based architecture provided by Angular 6.
- Implemented HTTP requests using RxJS Observable library to handle multiple values over time.
- Experience in working with the advanced JavaScript such as ECMAScript 6 (ES6).
- Involved in migrating application developed in Angular 5 to Angular 12.
- Used JIRA for bug tracking, GitLab as a version control tool and Jenkins is used for continuous integration of builds for SMARTShip project.
- Maintained code equilibrium by making periodical Pull Requests to the lead developers to merge and make development branch deployments to the development server at the end of each sprint to forward it to QA engineers for bug fixes and updates.
- Performed software testing to uncover bugs and troubleshoot performance issues prior to application launch.
- Trained and managed team of developers and discussed issues in order to provide resolution and apply best coding practices.
- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs and enhancements.

Software Developer

Thinking Code Technologies | September 2015 - March 2018

Projects Handled :-

RiskCounts : The RiskCounts Enterprise Risk Management Software Platform helps clients with technology solutions and solutions-related consulting across Enterprise and Operational Risk Management. The platform is suitable for a range of industry verticals across banks, asset-managers, insurers, hedge-funds and fintech/start-ups.

Frontend : Angular 4, HTML5, SCSS.
Backend : RESTEasy(Java).

Doctors Bazaar : This is an online Medical Device Market place that brokers doctors, hospitals, and device manufactures, and distributors. The ecosystem enables end to end management of medical equipment including inventory, orders, invoice, payments, logistics and search capabilities.

Frontend : AngularJS, HTML5, CSS.
Backend : Spring Boot, PostgreSQL

Jayalakshmi Silks Mobile App : An online mobile application for Jayalakshmi Silks which has its branches in four major cities of Kerala, India. The app serves online purchases for customers to choose from a wide range of clothing, especially Sarees and Ethnic wears.

Frontend : Ionic-2 Mobile App Framework.
Backend : Magento 2.

Roles and Responsibilities :-

- Developed and improvised front-end code architecture.
- Applied knowledge of Play framework scripting to supplement Java development.
- Developed robust Java code for Product based applications.
- Wrote, modified and maintained software documentation and specifications. Identified and eliminated performance bottlenecks by determining root causes and remediating problematic code.
- Employed prefabricated design patterns to shorten development times by applying existing frameworks.
- Developed an e-commerce mobile app with ionic-2 framework using typescript language.
- Developed a web-app for a New York based risk solution firm called risk-counts in Angular-4.

OTHER PROJECTS

- Developed a responsive personal portfolio website deployed with heroku/nodejs buildpack adding major highlights of the projects that I've dealt with over my work period.

  Tools Used : ReactJS, React Hooks, HTML5/SCSS, Rxjs, NodeJS.
  Link : https://workw-pj.herokuapp.com

- Developed an online clothing web app with most relevant key functionalities and is deployed in netlify.

  Tools Used : ReactJS, React Hooks / Redux / Persist / Router / Redux Saga, HTML5/SCSS, Stripe Integration.
  Link : https://clothcom.netlify.com