

Harsha vardhan Reddy

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EDUCATION

Texas State University

Master of Science in Computer Science

San Marcos, Texas

May 2024

Amrita School of Engineering

Bachelor of Computer Science

Bengaluru, India

May 2019

TECHNICAL SKILLS

Frontend: JavaScript, Typescript, React JS, React Hooks, React Router, Redux, React Native, HTML5, CSS, Styled Components

Backend: NodeJS, ExpressJS, MySQL, MongoDB, PostgreSQL, Django, Flask

Tooling: Git, GitHub, GitHub Actions, Docker, AWS, Jenkins

Other: GraphQL, Elasticsearch, SQL, ArcGIS, RESTful API, OAuth, JWT, Linux/Unix, CI/CD

PROFESSIONAL EXPERIENCE

Texas State University

Web developer

San Marcos, Texas

February 2023 – Now

- Designed and deployed various UI components and web pages using **Gatsby ReactJS** for a small-scale business disaster resilience website, seamlessly integrating **ArcGIS** maps to visualize and present comprehensive weather conditions data
- Integrated **Google Analytics** to track user behaviour, including navigation patterns and interactions with URL links, providing actionable insights for optimizing website experience
- Revamped website flows and navigation menus, reducing the frequency of misdirected customer service queries by 30% and **increasing traffic** to previously neglected pages
- Wrote and optimized **GraphQL** queries to fetch and process data for seamless integration into the React state
- Utilized **Context API** to dynamically fetch and display data related to the user's current location, enhancing the user experience with personalized information
- Implemented **internationalization** using the powerful **react-i18next framework**, converting all text from English to Spanish
- Incorporated **markdown files** for content creation, ensuring easy and efficient content updates and management
- Applied advanced skills to process diverse RSS feeds from NEWS channels, seamlessly incorporating into webpages and providing users with up-to-date information

Tata Consultancy Services

Software Engineer (Full Stack Developer)

Bengaluru, India

July 2019 - August 2022

- Developed engaging UI components and an interactive dashboard with **ReactJS**, increasing user engagement and improving data visualization for informed decision-making
- Executed **RESTful APIs** with **Node.js** and **Express**, optimizing UI interactions and improving data retrieval times by 25%
- Enhanced data accessibility by implementing filterable tables using **Elasticsearch**, resulting in a 40% increase in user satisfaction and efficiency when navigating through thousands of data points
- Adopted **Redux** for state management, which significantly reduced code complexity and increased team productivity by streamlining and centralizing state management processes
- Developed secure APIs for authentication and data visualization using **NodeJS**, contributing to robust server-side functionalities and enhancing overall system security and performance
- Containerized applications using **Docker**, simplifying the deployment process and ensuring consistent environments across development, testing, and production, which reduced deployment issues by 30%
- Integrated **CI/CD** pipelines using **GitHub Actions**, automating the build, test, and deployment processes, which decreased release cycles by 20% and improved code quality
- Leveraged **AWS** services, including **EC2, S3, and RDS**, to deploy and manage scalable, high-availability applications, resulting in a 25% reduction in infrastructure costs and faster application uptime
- Identified and rectified critical software defects while implementing new features, optimizing application performance and usability. Conducted comprehensive code reviews, resulting in a 15% reduction in coding errors
- Executed front-end optimization strategies, driving a 15% increase in website performance through techniques such as code minification, Memoization. Efficiently troubleshooted issues using browser developer tools

Yobny Tech Solutions

Internship (Front End Developer)

Bengaluru, India

February 2017 – June 2017

- Developed a **ReactJS** and **Redux** based front-end application to enhance team productivity, implementing multiple screens and leveraging NPM's components.
- Collaborated closely with UX/UI designers to translate wireframes into intuitive interfaces, ensuring smooth user interactions.
- Integrated **RESTful APIs** using **Axios** to streamline data flow and extend functionality in the React JS application.

- Applied responsive web design principles (HTML5, CSS3, media queries) for optimal user experience across devices.
- Participated in daily Agile/Scrum stand-ups and sprint planning using JIRA for task management and issue tracking.
- Managed **Git** and **GitHub** for version control, ensuring code integrity and facilitating collaborative Agile/Scrum development.
- Supported senior developers by debugging JavaScript, optimizing website performance, and improving user experience.
- Developed expertise in **ReactJS**, **Node.js**, **HTML5**, **CSS3**, and **JavaScript**, delivering responsive web applications with cross-browser compatibility.
- Demonstrated strong communication, collaboration, and proactive problem-solving skills in team environments.

Academic projects

- **E-commerce store:** e-commerce Store where people can add items to the cart and checkout with payment gateway
- **Mobile application:** Developed of a feature-rich restaurant finder app with seamless checkout, secure payment processing, and intuitive UI using **React Native**, **Firebase**, **Stripe API**, and **Google Maps API**
- **Database project:** Designed and developed a database model for connecting customer and local vendors with CRUD functionalities using **ReactJS** for frontend and **PostgreSQL** and **NodeJS** for backend