RAVEENA GINJALA

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Technical Skills

- **Programming Languages:** JavaScript, Python, Java, Object Oriented Programming, C
- **Web Technologies & DB:** React JS , Redux, ECMA Script 6 (ES6), Email JS ,Bootstrap, HTML5, CSS3, SASS, XML, JSON, Plotly, Firebase, Netlify, Babel ,Webpack, MySQL, PostgreSQL,
- **Frameworks and API:** React, Spring Boot, REST API's
- **Cloud & Proficient tools:** AWS**(**EC2, S3,VPC),Azure, Postman, Apache Kafka ,Jenkins ,Kubernetes, Docker
- **Version Control:** Git
- **SDLC:** Agile
- **Developer Tools & Editors:** VS Code, IntelliJ IDEA, Jupiter Notebook, Unity, Sublime text 3
- **Platforms/Operating System & Debugging Tools:** Windows, iOS, Unix , Chrome Inspector
- **Relevant Coursework:** Algorithms, Cloud Computing (Amazon Web Services), Augmented Reality, Data Mining

Professional Experience

Graduate Research Assistant | University of South Florida   **May 2023 – Present**

Digital Twin for Pandemic Analysis and Simulation

- Supported the analysis of pandemic trends, contributing to critical decision-making with an interactive dashboard developed using Plotly .
- Designed and implemented a COVID-19 forecasting dashboard, leading to a 60% increase in user satisfaction through enhanced visual appeal and usability.
- Developed and deployed a SEIR agent-based compartmental model in C++ to simulating population dynamics and disease transmission.
- Managed an agent-based model dashboard on the Azure platform.
- Collaborated with a three-member team to create a Python-based Digital Twin City project, comprising over 1,500 lines of code.
- Automated multiple routine tasks in Python, optimizing operational processes and achieving a 70% increase in efficiency for bulk file downloads.

Software Engineer| ZF Technology Center   **August 2019 – July 2022**

Responsibilities :

- Built UI web applications using React JS, Java, and Spring Boot ,depicting proficiency in creating interactive and aspect oriented programming for cleaner and easier maintenance .
- Demonstrated expertise in front-end development, including requirements gathering, design, implementation, testing, and maintenance, through the development of a custom-built applications.
- Implemented RestFul API endpoints to enable integration with external applications, enhancing the functionality and usability.
- Performed rigorous validations for the input data, achieving a 20% increase in the website's data handling.
- Executed Agile methodologies with proficiency, consistently meeting sprint goals by successful completing of stories and tasks and tasks on time.
- Trained and mentored new team members in high-performance coding techniques and best practices, contributing to a 25% improvement in team project performance.

Projects

Portfolio | Demo |*React JS, Redux, React Router, Responsive, CSS loader ,local storage, REST API, Git, Firebase*

- Personal portfolio website which helps me showcase my work experience & personal projects.

Shopping Website |Demo |*React JS, Redux, React Router, Responsive, CSS loader ,local storage, REST API, Git, Firebase*

- Engineered a multi-page responsive e-commerce website using React Router and enhanced site stability and debugging with Redux for efficient application state management.

- Integrated REST API for dynamic content management.
- Established a robust backend with Firebase, encompassing user authentication, database operations, and hosting.

Expense Tracker |[Demo](#) |*React JS, Redux, React hooks , local storage, moment.js ,react-toastify, Git, Netlify*

- Developed a React-based expense management application, utilizing Redux for dynamic state handling and streamlined expense tracking.
- Utilized moment.js for live time updates.
- Developed a dynamic form with category selection and validation.
- Created a searchable expense list for efficient data management.
- Developed a responsive UI for expense cards with edit/delete options and managed full CRUD operations using Redux.

Creating an S3 bucket using AWS |*Amazon S3*

- Initialized AWS S3 via CLI, configured AWS CLI settings, established S3 buckets, and executed fundamental operations like file uploads and downloads.

Leadership / Extracurricular

- Received Super Star Award for excellence in performance and undeterred commitment towards work in 2021.
- Driven and communicative, excelling in teamwork to achieve innovative outcomes.

Education

- **Master of Computer Engineering**   **August 2024**
  University of South Florida, Tampa ,Florida   **GPA:3.96/4.0**
- **Bachelor of Engineering in Electronics and Communication Engineering**   **April 2019**
  Chaitanya Bharathi Institute of Technology, Hyderabad, India.   **GPA:8.97/10**