

## Technical Skills

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- **Programming Languages:** JavaScript, Python, Java, Object Oriented Programming, C
- **Web Technologies & DB:** HTML5, CSS3, WordPress, React JS , Redux, ECMA Script 6 (ES6), Email JS ,Bootstrap, 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, Docker
- **Version Control:** Git
- **SDLC:** Agile, Jira
- **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

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### Graduate Research Assistant | College of Public Health

May 2023 – Present

#### An Agent-based City Digital Twin for Pandemic Analysis and Simulation

- Collaborated in constructing a Digital Twin of Hillsborough County, comprising 52 zip codes, to examine pandemic trends using SEIR agent-based compartmental model.
- Designed an interactive dashboard for the exploration and assessment of pandemic spread using Plotly and hosted it on Azure.
- Designed and implemented a COVID-19 forecasting dashboard, leading to a 60% increase in user satisfaction through enhanced visual appeal and usability.

### Software Engineer | ZF Technology Center

August 2019 – July 2022

- Built UI web applications using React JS, JavaScript depicting proficiency in creating interactive and aspect-oriented programming for cleaner and easier testing and maintenance .
- Demonstrated expertise in front-end development, including requirements gathering, designing ,expanding, scaling ,testing, and maintaining , through the development of a custom-built applications.
- Implemented RestFul API endpoints to enable integration with external applications, enhancing the functionality and usability.
- Optimized web content for search engines, increasing organic traffic by 30%.
- Performed rigorous validations for the input data, achieving a 20% increase in the website's data handling.
- Executed Agile methodologies with proficiency, consistently and independently 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

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### Portfolio | [Demo](#) | *React JS, Redux , Bootstrap ,JavaScript,CSS3, React Router, Responsive, Email JS, Git ,Firebase, Netlify*

- Designed a React-based portfolio application to showcase work experience and projects.
- Implemented a contact section using Email JS for direct communication.
- Configured Firebase for robust data persistence and real-time database interactions.

### Shopping Website | [Demo](#) | *React JS, CSS3,HTML5,Redux, React Router, Email JS, Responsive, CSS loader ,local storage, REST API, Git, Firebase*

- Developed a responsive e-commerce site with React Router, focusing on seamless navigation and robust user experience.
- Implemented Redux for advanced state management, resulting in enhanced stability and more efficient debugging workflows.

- Designed real-time functionalities for product browsing, cart management, and order placement/cancellation.
- Integrated REST API for dynamic content management and Email JS for streamlined communication.
- Established a robust backend with Firebase, encompassing user authentication, database operations and hosting.
- Engineered real-time validation and secure storage of payment card details within the application.

**Expense Tracker | [Demo](#) | *React JS, JavaScript, JavaScript,CSS3,HTML5, 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 responsive UI for expense cards with edit/delete options and managed full CRUD operations using Redux.

**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**

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