Sai Parimala Vaishnavi Bhattaru

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INDUSTRIAL EXPERIENCE

Emerson Electrics - Front End Developer Intern   **Sep. 2021 – Nov 2021**

India
- Developed a responsive web application using React.js, resulting in a 20% increase in user engagement.
- Participated in Agile development, contributing to sprint planning, stand-ups, and code reviews to ensure quality and timely delivery.
- Translated design wireframes into efficient and pixel-perfect web interfaces using HTML, CSS, and JavaScript.
- Collaborated with designers to enhance UI/UX, improving user satisfaction and usability.

EDUCATION

Arizona State University   **Aug. 2022 – May 2024**

Master of Science in Computer Science   *Tempe, AZ*

Relevant Coursework: *Foundations of Algorithms, Multimedia and Web Databases, Human Computer Interaction*

Ghandhi Institute of Technology and Management   **Jul. 2018 – Apr. 2022**

Bachelor of Technology in Computer Science   *Hyderabad, India*

Relevant Coursework: *Data Structures, Computer Networks, Data Base Management System, Software Engineering.*

PROJECTS

VanLife Web Application   **Aug 2024**

Web Development Application   *ASU, USA*
- Developed a dynamic React.js web application where users can browse and rent vans, and hosts can list vans and manage bookings.
- Designed and implemented RESTful APIs using Node.js and Express to handle backend functionality, including user authentication, van listings, and booking management.
- Integrated real-time data using Firebase and Mirage JS for seamless user experience and responsive updates.
- Improved user experience by ensuring smooth navigation, clear workflows, and scalable backend services.

Notes App Replica   **July 2024**

Full-Stack Web Application Development   *ASU, USA*
- Developed a full-stack Notes Application using React.js for the front-end and Node.js for the backend, with Firebase for data storage and retrieval.
- Implemented user authentication and data persistence, allowing users to create, edit, delete, and manage notes across devices in real-time.
- Designed a clean, responsive UI using HTML, CSS, and React to ensure a seamless user experience on both desktop and mobile platforms.
- Integrated Firebase to handle real-time data storage, allowing for secure and efficient note retrieval and updates

Campus Parking Booking System   **Dec 2023**

UX/UI Designing   *ASU, USA*
- Conducted detailed user research and created user personas to design an efficient and User-centered campus parking booking system.
- Implemented A/B testing and iterative designs using Figma to refine UI/UX, improving user satisfaction and system usability.
- Reduced cognitive load and enhanced accessibility through well-structured user flows and responsive design.

Full Stack Spatial Data Science Application   **Sept. 2023**

Full Stack Web Application   *ASU, USA*
- Developed a full-stack web app to visualize spatial data using Apache Sedona, Python Flask, and JavaScript.
- Improved back-end performance by 40% through optimized query processing and multi-threading techniques.
- Created data visualizations to help users derive insights and make data-driven decisions.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, SQL

Technologies/Frameworks: React.js, Angular, Node.js, Express.js, HTML, CSS, REST API, MongoDB, PostgreSQL, Firebase, GraphQL, Webpack, SCSS

Tools: Git/GitHub, Figma, Adobe XD, Jira, Confluence

Software Skills: Agile (Scrum), Object-Oriented Programming (OOP), Test-Driven Development (TDD), UI/UX Design, Front-End Development, Back-End Integration