

SAI PARIMALA VAISHNAVI BHATTARU

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Computer Science graduate specializing in full-stack development, proficient in modern frameworks like React.js, Angular, typescript, Next.js, Node.js, and Express.js. Skilled in cloud integration with AWS, Firebase, and Azure to build scalable, performance-driven web applications. Experienced in optimizing both front-end and back-end systems, with a focus on delivering user-centric designs and data-driven solutions that enhance user experience and system efficiency.

INDUSTRIAL EXPERIENCE

Emerson Electrics - Front End Developer Intern

Sep. 2021 – Nov 2021

India

- Redesigned the company website, resulting in a significant 20% increase in user engagement.
- Conducted comprehensive user research to gather valuable insights, driving improvements in the overall user experience.
- Designed pixel-perfect interfaces using **Figma**. The user interface was subsequently developed using **HTML**, **CSS** and **React.js**.
- Implemented data-driven decision-making processes to enhance user experience and engagement.

EDUCATION

Arizona State University

Aug. 2022 – May 2024

Master of Science in Computer Science

Tempe, AZ

Relevant Coursework: Foundations of Algorithms, Data Visualization, Multimedia and Web Databases, Data Mining, 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

July 2024

Web Development Application

- Developed web application (VanLife) where users can browse and rent vans, while hosts can list their vans, track earnings, manage reviews, and access a personalized dashboard, improving the overall experience for both users and hosts.
- Built dynamic UI components with **React JS**, **CSS**, and **HTML**, ensuring an intuitive user experience. Managed API calls and data storage using **Mirage JS** for mock server data and then integrated **Firebase** for real-time data management.
- Designed an intuitive user interface using React JS, ensuring easy navigation and clear workflows for both renters and hosts, resulting in a streamlined user experience and improved retention.

Campus Parking Booking System

Dec 2023

UX/UI Designing

ASU, USA

- Applied user-centric design principles by conducting detailed user research, creating personas, and building low-fi to high-fi prototypes in Figma that addressed specific campus parking challenges such as real-time spot availability and seamless booking workflows..
- Incorporated iterative design practices with continuous user feedback, using A/B testing and usability testing to refine the UI/UX, reduce cognitive load, and enhance accessibility and efficiency for both mobile and web platforms.
- Leveraged data-driven insights from user testing and UX metrics to optimize user flows, resulting in a significant improvement in user satisfaction, task completion rates, and overall system usability.

Full Stack Spatial Data Science Application

Sept. 2023

Full Stack Web Application

ASU, USA

- Developed a full-stack web application to process and visualize spatial data, aimed at enabling users to efficiently analyze and query complex spatial and temporal datasets. Built a responsive front-end using HTML, CSS, and JavaScript, with a robust back-end leveraging Apache Sedona, Python Flask, and Scala.
- Improved back-end performance by 40% through the implementation of multi-threading techniques, significantly reducing query processing time and optimizing the efficiency of spatial and temporal range queries.
- Conducted in-depth spatial data analysis and created data visualizations, enabling users to gain actionable insights and make more informed decisions based on accurate spatial data processing.

TECHNICAL SKILLS

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

Technologies/Frameworks: REST, MongoDB, Git/Github, SQL(MySQL, Postgres), Apache Sedona, RESTful APIs, Postman, MERN, HTML, CSS, Javascript, ReactJS, Angular,typescript, Nextjs, Nodejs, Expressjs, Flask, Figma, Adobe XD

Software Skills: Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), Agile Development