

Sai Charan Kappala

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Software Engineer with over 3 years of experience in designing and developing scalable, high-quality software solutions. Proficient in **JavaScript**, **React.js**, **Python**, and **Java**, with expertise in building responsive, user-focused frontend applications. Skilled in cloud platforms like **Microsoft Azure**, **AWS**, and **GCP**, and adept at implementing **CI/CD pipelines** and **modern testing frameworks** like Jest and Cypress. Strong database management experience with **PostgreSQL**, **MongoDB**, and **Cassandra**. Proven ability to deliver impactful solutions, including a carpooling application with real-time geolocation tracking. Pursuing a master's in information systems at **California State University, Fullerton**, with certifications in **Azure Fundamentals** and **Power BI**.

EDUCATION -

- **California State University, Fullerton**, Master of Science in Information Systems with Business Analytics Jan 2023 - Dec 2024
- **Saveetha University**, Bachelor of Engineering in Computer Science Apr 2017- Jun 2021

SKILLS:

- Programming: JavaScript | React.js | Python | Java | HTML | CSS | C++ | Algorithms | Data Structures
- Frontend Ecosystem: React.js | Node.js | GraphQL | Modern Testing Frameworks (Jest, Cypress, Mocha, Chai) | Bundling, Linting, and Releasing Tools
- Cloud: Google Cloud Platform (GCP) | Microsoft Azure | AWS
- Database: PostgreSQL | MySQL | MongoDB | SQLite | Cassandra
- Automation Tools: Docker | Kubernetes | GitLab | Jenkins | Azure DevOps | ARM Templates
- Operating Systems: Linux
- Testing & Quality Assurance: Selenium | Performance and Load Testing | JUnit | TestNG
- Soft Skills: Agile Methodology | Problem Solving | Collaboration | Technical Documentation

WORK EXPERIENCE –

Software Developer, California State University, Fullerton

Jan 2024 – Dec 2024

- Designed and developed a scalable web application to facilitate ridesharing, focusing on delivering a responsive and user-friendly frontend interface for seamless user interaction.
- Implemented real-time geolocation tracking using JavaScript and HTML/CSS, enhancing user safety and ride coordination.
- Built frontend components with Node.js and React.js, ensuring a dynamic and interactive user experience.
- Optimized frontend performance through efficient caching mechanisms and load testing, enabling the application to handle high traffic seamlessly.
- Conducted extensive frontend testing and debugging, improving system reliability, and reducing response times by 30%.
- Collaborated with backend teams to integrate APIs and ensure secure data handling with PostgreSQL for user and ride management.

Software Engineer, Accenture Solution Pvt Ltd

Aug 2021 – Jan 2023

- Collaborated with cross-functional teams, including product managers and designers, to deliver customer-centric features and ensure seamless user experiences.
- Developed scalable frontend interfaces using modern frameworks like React.js to enhance user interaction and improve application performance by 30%.
- Partnered with backend teams to integrate APIs efficiently, utilizing GraphQL and REST principles for data exchange, optimizing data flow for complex systems.
- Designed and implemented CI/CD pipelines to streamline the deployment of frontend applications, ensuring rapid feature rollouts and reducing deployment time by 40%.
- Conducted extensive testing with tools like Jest and Selenium, ensuring high-quality, bug-free code before deployment to production.
- Built responsive, user-friendly web components, utilizing HTML, CSS, and JavaScript, adhering to accessibility and performance best practices.
- Contributed to code reviews and technical documentation, fostering a culture of collaboration and continuous improvement within the team.
- Integrated frontend solutions with cloud-based systems on Microsoft Azure, enabling high-availability distributed systems.

Software Engineer, Maveric Systems Pvt Ltd

Oct 2020 – Aug 2021

- Designed and executed frontend test cases for distributed systems, ensuring high reliability and fault tolerance across complex modules.
- Automated UI testing workflows using Selenium WebDriver, significantly reducing manual efforts and enhancing testing efficiency by 50%.
- Collaborated closely with developers and product teams to identify and resolve UI bottlenecks, improving application reliability and user experience by 20%.
- Developed Python-based frameworks to automate GUI testing, enabling rapid debugging and validation of frontend components in high-performance applications.
- Conducted performance and load testing using Azure Load Testing Tools to validate the scalability and responsiveness of web applications under varying user loads.
- Partnered with cross-functional teams to enhance customer-facing interfaces, ensuring alignment with business requirements and delivering high-quality user experiences.

CERTIFICATIONS:

Microsoft Certified: Azure Fundamentals | Microsoft Certified: Security, Compliance, and Identity Fundamentals | Project Management with Monday.com | SEO Foundations | Power BI Essential Training