

CHRISTU GOPU

christurajreddy@gmail.com | +1(662)-863-9295 | [Website](#) | [LinkedIn](#)

Software Engineer

Software Engineer | Full-Stack Developer | iOS Enthusiast

Computer science major with 2+ years of experience applying software engineering principles to build and optimize web and mobile applications and microservices using frameworks like React, Node.js, and Swift. Developed RESTful APIs and implemented CI/CD pipelines with Jenkins and Docker to improve deployment efficiency and system reliability. Improved application performance by 15%, resulting in faster response times and increased user engagement. Collaborated with cross-functional teams to design scalable, data-driven solutions and deploy cloud-based services, ensuring seamless communication and uptime. Eager to contribute to impactful projects involving machine learning, system design, and cloud infrastructure while continuing to grow technical expertise brick by brick.

PROFESSIONAL SKILLS

- Languages: JavaScript, TypeScript, Swift, HTML5, Ruby on Rails, Python, Java, C++, SQL.
- Frameworks/Libraries: React, Angular, Vue, Node.js (NPM), Express, Spring Boot, Cypress, MATLAB, jQuery.
- Technologies: RESTful APIs (Integration and testing), CI/CD pipelines, Docker/Kubernetes, Jenkins, GraphQL, Git, GitHub, AWS, Azure, Figma, WordPress, PowerBI.
- Databases: PostgreSQL, MongoDB, Oracle.
- Methodologies: Collaboration, Agile Methodologies, Software development life cycle, Microservices, OAuth 2.0, Secure role-based access controls, Problem-solving

WORK EXPERIENCE

University of Memphis - Memphis, TN

August 2022 – December 2022

Software Developer

- Built and maintained features for student registration, course enrollment, and grade management, supporting over 5000+ daily users with 99% uptime during peak periods. Developed modular web components using JavaScript, HTML/CSS, and REST APIs.
- Improved database performance and enhanced the UI by optimizing queries and simplifying navigation, reducing page load times by 30% and increasing student usage. Created custom views and wrote queries using Active Record with MySQL.
- Set up CI/CD pipelines using Jenkins and Docker to automate deployments, reducing release times by 50% and ensuring consistent updates with minimal downtime in an Agile development environment.
- Implemented access controls and security features to safeguard student data and ensure compliance with institutional policies. Worked closely with teams to address system issues and deploy fixes effectively.

Xlenz - *Hyderabad, India*

January 2021 – April 2022

Junior Software Developer

- Developed and updated website pages using React JS to support AR/VR project features, improving navigation and access to project details. Managed version control with Git, handled builds using Jenkins, and conducted unit tests to ensure functionality before release.
- Built a project tracking tool using React and PostgreSQL to display pending and approved projects, implementing role-based access controls and grouped data views to improve workflow visibility and reduce manual tracking efforts.
- Integrated REST APIs to display real-time status updates for testing team project approvals and conducted integration tests to ensure performance and reliability, improving data flow and reducing approval delays by 25%.
- Resolved a role-based access issue causing delays by debugging permission logic and optimizing database queries, reducing errors by 40%. Used Docker to create a consistent testing environment and ensure smooth deployments across teams.

EDUCATION

University of Memphis - *Memphis, TN*.

Master's Degree – Computer Science | August 2024 | GPA: 3.15/4.0.

- Relevant Coursework: Software Engineering, Algorithms, Machine Learning, Cryptography, Database Management Systems, Networking.

Jawaharlal Nehru Technological University - *Hyderabad, India*.

Bachelor's Degree – Computer Science | August 2022 | CGPA: 6.5/10.0

- Relevant Coursework: Data Structures, Artificial Intelligence, Object-Oriented Programming in Java, Cloud Computing, Machine Learning.

PROJECTS

Portfolio Website: [Go to the website](#)

- Designed and developed a fully functional portfolio website using React JS, HTML5, and CSS to showcase projects, skills, and experience.
- Implemented responsive design principles to ensure seamless user experience across devices and browsers. Implemented GitHub Actions for CI/CD, enabling automated deployments and streamlined version control.
- Improved website performance by 30%, optimizing components, adding lazy loading, and managing CSS efficiently.
- Hosted the website on GitHub Pages for reliable access and easy sharing with recruiters and collaborators.

Floral Essence website - University of Memphis

- Built a responsive e-commerce platform using Ruby on Rails, JavaScript, and CSS, increasing mobile user engagement by 25% and improving page load times by 30%.

- Added secure user authentication and integrated RESTful APIs to handle real-time inventory, pricing, and order management, reducing order processing time by 40%.
- Designed a database schema to store user and product data, improving data retrieval speeds by 35% and ensuring consistent performance during peak traffic periods.

iOS Application Development (*Coursera – Meta*)

- Built an iOS app using Swift and SwiftUI, focusing on clear code structure and creating user-friendly interfaces that improved navigation and reduced load times.
- Optimized data handling and storage to improve information retrieval, reducing memory usage and enhancing app responsiveness.
- Completed a capstone project that showcased skills in Swift programming, interface design, and data management, with cross-platform features using JavaScript and React Native basics.

Intra-Bundle – Xlenz

- Built a React-based dashboard for tracking project workflows with real-time data updates, reducing manual tracking by 40% and improving evaluation efficiency.
- Improved system architecture to handle high-load applications, reducing response times, and enabling smoother collaboration across teams during peak usage.