

Mallikarjuna Reddy Gayam

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WORK EXPERIENCE

Cognizant

Hyderabad, India

Software Engineer Trainee

Feb 2023 - Aug 2023

- Developed and deployed full-stack web applications using React.js and Node.js, addressing performance challenges in existing systems.
- Tasked with improving query response times and ensuring seamless feature deployments across development, staging, and production environments.
- Optimized PostgreSQL database schemas and integrated robust CI/CD pipelines with Jenkins and Docker, enabling streamlined deployments and scalable application architecture.
- Delivered a 40% improvement in application performance, a 50% reduction in database query response times, and a 60% decrease in deployment time, enhancing user satisfaction and operational efficiency.

Course Hero

Remote

Tutor

Aug 2022 - Apr 2023

- Assisted students in solving complex coding challenges in Java and Python, focusing on explaining foundational programming concepts and problem-solving strategies.
- Tasked with delivering clear, concise, and accurate solutions to a diverse range of coding problems while maintaining a high helpfulness rating.
- Reviewed and answered over 500+ coding questions, reinforcing students' understanding of data structures, algorithms, and language-specific best practices.
- Consistently achieved a 93% helpful rating, showcasing a commitment to clarity, accuracy, and improving students' coding proficiency.

Cognizant

Hyderabad, India

Software Engineer (Intern)

Feb 2022 - Aug 2022

- Engineered a comprehensive student management system to streamline academic processes and boost administrative efficiency.
- Tasked with developing a scalable and responsive system capable of managing over 10,000 student records.
- Designed the system using React.js and Node.js, optimized MySQL database schemas, and implemented RESTful APIs to ensure efficient data handling and interaction.
- Achieved a 30% improvement in administrative efficiency, a 45% acceleration in data retrieval times, and a 25% reduction in system response time, delivering a high-impact solution.

EDUCATION

Saint Louis University

St. Louis, Missouri

Master of Science in Information Systems

May 2025

Lakireddy Bali Reddy College of Engineering

Andhra Pradesh, India

Bachelor of Technology in Computer Science & Engineering

May 2022

PROJECT EXPERIENCE

Acco Finder

- Designed and developed a platform using Next.js and firebase to solve housing challenges for international students, increasing user engagement by 50%.
- Integrated real-time chat, user authentication, and Google Maps API, significantly enhancing platform usability and reducing the bounce rate by 75%.
- Implemented personalized notifications and location-based services, leading to a 40% increase in daily active users.

Real-Time Collaboration Platform

- Developed a collaborative web application using Next.js and React.js to enable real-time updates for document editing and team communication.
- Integrated WebSocket-based communication to support live updates, task management, and chat functionality, improving team productivity significantly.

- Implemented user roles and permissions for enhanced security, ensuring scalability for diverse team structures and projects.

Portfolio

- Designed a personal portfolio website to showcase professional projects and skills, addressing the need for an impactful online presence.
- Built the site using Next.js, React.js, and Tailwind CSS, focusing on responsive layouts and intuitive navigation to enhance accessibility across devices.
- Achieved high search visibility and a polished online portfolio by integrating custom animations and SEO optimizations, significantly improving engagement and professional outreach.

AI Article Summarizer

- Built an AI-powered summarization tool using GPT-4 technology to address the challenge of time-consuming manual content summarization.
- Designed an interactive React.js interface with live previews, boosting user engagement by 60% and reducing summarization time by 40%.
- Applied advanced caching techniques to optimize performance, cutting loading times by 70% and enhancing user satisfaction.

Emotion-Based Music Player

- Developed a machine learning-powered music recommendation system using CNNs to analyze user facial expressions.
- Created a seamless user interface for live mood detection and personalized music suggestions, improving user engagement by 40%.
- Presented and published research on the system at ICSCDS 2022, showcasing its innovative impact on personalized user experiences.

PUBLICATIONS

Emotion Based Music Player Using Machine Learning Techniques: Presented at the International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2022)

SKILLS

Programming Languages	Python, Java, C++, JavaScript, TypeScript
Databases	PostgreSQL, MongoDB, MySQL
Cloud Platforms	AWS, Google Cloud Platform
Frameworks, Tools, Libraries and Other Skills	Next.js, React.js, Node.js, Express.js, Prisma, Redux, Webpack, Babel, Three.js, Web Socket , Docker, Kubernetes, Git, MS Power BI, HTML, CSS, Linux, Software Development, Agile, Machine Learning, Artificial Intelligence, Generative AI, Firebase, User Interface Design, OpenAI API, SEO, Tailwind CSS, Data Structures, REST APIs, CI/CD, Full Stack Development, Responsive Web Design, Android App Development