

Rachana Vannala

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ABOUT

Over 3+ years of proven experience in designing, developing, and deploying **scalable web applications** using **React, Angular, JavaScript, TypeScript, Node.js**, and cloud technologies like **Azure, AWS, and GCP**. Skilled in building **responsive user interfaces**, integrating **RESTful APIs**, and optimizing **CI/CD pipelines** to deliver **high-performing, maintainable, and user-centric solutions**. Experienced in modern software development practices, including **component-based architecture, Agile methodologies, and test automation**. Recognized for strong **problem-solving skills, analytical thinking**, and the ability to drive **innovation and efficiency** in dynamic, **collaborative environments**.

PROFESSIONAL EXPERIENCE

Banner Management Consulting, Lexington, Kentucky

Apr 2025 - Present

Full Stack Web Developer

- Modernized the labor planning and financial analytics web application, enhancing system performance, maintainability, and deployment pipelines, which reduced release cycles by 40%.
- Automated labor forecasting and cost planning reports through interactive dashboards and RESTful API integrations, saving 15+ hours per month in manual data consolidation and improving accuracy.
- Optimized front-end performance with lazy loading, efficient state management (Redux/NgRx), and code-splitting, resulting in faster load times and improved scalability across modules.
- Developed real-time labor utilization and cost variance dashboards using React Hooks and Chart.js/D3.js to compare forecast versus actuals, helping portfolio companies identify staffing inefficiencies and shorten planning cycles by 30%.
- Enhanced user experience by redesigning dashboard layouts, simplifying navigation, and improving accessibility, which increased data interpretability by 25%.
- Streamlined deployments by implementing Azure DevOps CI/CD pipelines, containerizing services with Docker and Kubernetes, and managing versioned rollouts using YAML-based Infrastructure as Code.
- Implemented JWT-based authentication, role-based authorization, and secure API access controls to ensure data security and compliance for workforce data.
- Developed automated test suites using Jest, Cypress, Postman, and Selenium, improving defect detection rate by 35% and overall release reliability.
- Introduced performance monitoring and analytics tools to identify real-time bottlenecks, improving responsiveness of the labor planning tool by 25%.

University of Cincinnati, Cincinnati, Ohio

Jan 2024 - Dec 2024

Software Support Engineer

- Supported the migration of the legacy CRM system (CSI Spectrum) to the new Rec Auto platform, modernizing the campus recreation management tool and improving scalability, usability, and data integrity.
- Built responsive and user-friendly interfaces using React and TypeScript, enhancing the member account management and service booking experience, resulting in a 30% increase in user engagement.
- Developed and optimized RESTful APIs with Spring Boot and Node.js to ensure seamless backend connectivity, reducing average application load time by 20% and improving data synchronization across services.
- Collaborated with cross-functional teams to analyze and optimize 50+ complex SQL queries in MySQL and PostgreSQL, improving query execution speed by 35% and ensuring smoother CRM performance.
- Implemented unit and integration testing frameworks using JUnit and Jest, achieving 95% code coverage, and reducing post-deployment issues by 40%.
- Configured Jenkins-based CI/CD pipelines to automate deployment workflows, saving 30+ engineering hours per month and minimizing manual release overhead.
- Developed automation scripts and workflow optimizations to streamline repetitive data processing tasks, improving team productivity by 20%.
- Refined design workflows and incorporated accessibility best practices, aligning the Rec Auto CRM with modern web standards and improving usability for diverse campus users.

AccelTree Software, Pune, India**Jan 2022 - Jun 2023****Full Stack Developer**

- Developed and maintained core modules for an insurance management platform, enhancing policy administration, claims tracking, and customer servicing efficiency.
- Optimized front-end components using HTML, CSS, JavaScript, and React/Angular, reducing page load time by 25% and improving user satisfaction scores.
- Improved server-side performance with Node.js, increasing API response speed by 30% and enabling the system to handle over 100,000 daily requests without performance degradation.
- Participated in code reviews and architectural discussions, driving a 15% improvement in code quality and adherence to best practices.
- Integrated third-party insurance verification and payment APIs, automating claims validation, and reducing processing turnaround time by 25%.
- Engineered policy management dashboards in React/Angular to streamline data workflows, cutting input errors by 30% and boosting agent productivity.

Let's Grow More, Hyderabad, India**Jul 2021 - Dec 2021****Full Stack Developer Intern**

- Created a responsive web application for a small restaurant, applying performance optimization strategies that reduced load times by 30%, ensuring smooth user experience across all devices.
- Implemented server-side functionality using Node.js and optimized MySQL database schemas, improving application performance, scalability, and order management efficiency.
- Collaborated with developers and product owners to integrate third-party services and APIs, enhancing features such as online ordering, reservations, and payment processing.

The Sparks Foundation, Hyderabad, India**Jan 2021 - Jun 2021****Web Developer Intern**

- Designed and implemented a secure donation platform for COVID-affected patients, integrating a **payment gateway** that streamlined transaction processing and reduced payment time by 50%, improving accessibility and donor experience.
- Refined overall application performance through continuous monitoring and optimization, achieving a 25% increase in web application speed and reliability.
- Collaborated with cross-functional teams using Git-based version control, ensuring efficient project management, smooth collaboration, and seamless deployment workflows.

EDUCATION**University of Cincinnati, Cincinnati, Ohio****Dec 2024***Master of Science in Information Technology - 4.00 GPA*

TECHNICAL SKILLS**Coding Languages:** Python, Java, Kotlin, C++, C, C#, Go, R**Methodologies:** SDLC, Agile/ Scrum, Waterfall**Web Development:** HTML, CSS, JavaScript, TypeScript, PHP, React.js, Vue.js, Node.js, Angular 16, jQuery, .NET 8, MySQL, Spring Boot, API's**Databases:** PostgreSQL, MySQL, MongoDB, Cloud SQL (GCP)**Frameworks:** Django, PyTorch, Flask**Mobile Development:** React Native**Cloud:** AWS, GCP**Tools:** Tableau, Power BI, Advanced Excel, Visual Studio, Jupyter Notebook**Version Control:** Git, GitHub**CI/CD & DevOps:** Azure DevOps, Docker, Kubernetes

PUBLICATIONS & ACHIEVEMENTS**Graphical Authentication System using Image Panels – *IJRITCC*****Dec 2023****AI Chatbot for answering FAQ's – *IEEE*****Oct 2022****Smart India Hackathon****Aug 2022****Comparative Analysis of Data Decryption Techniques – *POSITIF*****Jul 2022****Artificial Intelligence involvement in predicting the heart disease – *POSITIF*****Jul 2022****UIDAI Aadhar Hackathon****Nov 2021**