

Venkata Tanuja Madireddy

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SUMMARY

Innovative Front-End Developer with over one year of experience delivering high-visibility digital transformation projects using React.js, Next.js, and TypeScript to rebuild scalable web and mobile interfaces. Spearheaded the development of responsive, accessible UI components from Figma designs, improving user engagement and reducing load times by optimizing cloud deployments on Azure with Docker and Kubernetes. Proven ability to accelerate Agile sprint cycles using Jira and GitHub, driving feature releases that enhanced customer experience across retail, consumer, and small business platforms.

EDUCATION

Master's in Computer and Information Science | Saint Louis University

Aug 2023 – May 2025

Bachelor's in Computer Science and Engineering | B V Raju Institute of Technology

Jun 2018 – Jun 2022

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java

Frontend Frameworks: React.js, Next.js, Tailwind CSS, HTML5

UI/UX Tools: Figma

Version Control: Git, GitHub

Project Methodologies: Agile (Scrum), Jira

Cloud & DevOps: AWS (Lambda, S3, API Gateway), Azure, Docker, Kubernetes

Databases: MySQL, DBMS

Others: Tableau, Power BI, PEGA (for enterprise app integrations)

PROFESSIONAL EXPERIENCE

Associate Software Engineer | Carelon Global Solutions, Hyderabad, India

July 2022 – July 2023

- Led development of responsive web applications using React.js, Next.js, and TypeScript, significantly enhancing user experience and engagement.
- Translated complex Figma designs into pixel-perfect, accessible UI components, improving cross-device compatibility and reducing UI issues.
- Led cloud integration efforts by deploying applications on Azure, utilizing Docker and Kubernetes to streamline deployment processes.
- Built and maintained CI/CD pipelines using GitHub Actions and Jira, accelerating sprint delivery and reducing deployment errors
- Integrated RESTful APIs to enable dynamic data rendering, improving front-end data responsiveness and reliability
- Partnered with cross-functional teams to embed Tableau and Power BI dashboards, supporting data-driven business decisions
- Implemented automated testing with Jest, enhancing code quality and minimizing post-release defects

Pega Intern Delivery | Virtusa, Hyderabad, India

Jan 2022 – Apr 2022

- Developed enterprise-grade applications utilizing **Pega**, enhancing user interfaces and case management workflows to improve operational efficiency by **15%**.
- Configured decision rules and data pages, facilitating dynamic data flow and real-time analytics within the application, directly benefiting business process optimization.
- Designed front-end views and forms with Pega's UI tools, engaging users effectively and ensuring accessibility across diverse user demographics.
- Automated backend processes to streamline case management, resulting in a **20% reduction in processing time** for critical application functions.
- Gained comprehensive exposure to the full application lifecycle in a **low-code environment**, contributing to improved application deployment speed and enhancing team productivity.

PROJECTS

Job Discovery Dashboard for Freshers

- Built a full-stack job discovery platform using Next.js, TypeScript, and Firebase, aggregating listings from LinkedIn, Indeed and Google Jobs with real time – updates and filtering.
- Integrated AI-driven resume matching using OpenAI for skill extraction and TF-IDF + XGBoost for entry-level classification, enabling personalized job scores and gap analysis.
- Developed interactive analytics dashboards with Chart.js and Recharts, visualizing job trends, hiring regions, and skill demands using real-time Firestore data.
- Implemented secure Firebase Authentication, profile management, and resume upload with version control, enabling users to track matches over time.

MediLink – Patient-Doctor Communication Portal

- Designed and developed a responsive, real-time communication platform using React.js, Next.js, and TypeScript to facilitate seamless messaging and appointment scheduling between patients and doctors.
- Implemented WebSocket for live chat updates and RESTful APIs for secure data exchange, ensuring low latency and real-time responsiveness.
- Integrated Tailwind CSS for rapid UI styling and consistent design, improving development speed and user experience across devices.
- Utilized Azure Cloud Services for hosting, storage, and authentication, leveraging Azure Functions for serverless backend processing to enhance scalability and reliability.

Smart Fit – AI-Powered Fitness Dashboard

- Developed a responsive fitness analytics platform using React and Next.js, enabling users to track workouts, nutrition, and goals in real time.
- Built dynamic data visualizations with Chart.js and integrated OpenAI APIs to generate personalized workout insights and health tips.
- Used Tailwind CSS and a modular design system to streamline UI development, achieving consistent branding and faster component reuse.
- Packaged and deployed the application using Docker on Azure, ensuring consistent builds and seamless environment replication across development and production.

CERTIFICATIONS

- Pega Certified Senior System Architect (PCSSA) 8.6 | Pegasystems
- Pega Certified System Architect (PCSA) 8.4 | Pegasystems
- Java Programming | Oracle Academy
- Database Programming with PLSQL | Oracle Academy