

ANITHA YERUVA

AI FULL STACK ENGINEER

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SUMMARY

Full Stack Engineer with 3.5 years of experience in frontend development, scalable backend systems, and AI integrations. Proficient in building modern web applications using **ReactJS**, **Next.js**, **Node.js**, **PostgreSQL**, and **MongoDB**. Skilled in crafting dynamic, responsive user interfaces and integrating **Gen AI** to enhance automation and system intelligence. Experienced in deploying applications with **Docker**, **Kubernetes**, **GCP** and building multi-tenant SaaS platforms. Adept at leveraging the Microsoft Power Platform like **SharePoint** and **PowerApps** to deliver high-impact, intelligent solutions.

TECHNICAL SKILLS

- Front End Tech: ReactJS, Redux & Next.js
- Back End Tech: NodeJS, Python (FastAPI)
- Database: Mongo DB, PostgreSQL, Big Query, Prisma ORM
- UI Libraries & CSS: Fluent UI, Material UI, Tailwind CSS, Shadcn UI
- Web Plat Form: SharePoint
- Scripting Languages: JavaScript
- DevOps: Docker, Kubernetes, Helm Charts, CI/CD Pipelines, PM2,
- Cloud: GCP
- AI Integration: CopilotKit SDK, LangGraph, OpenAI APIs, RAG (Retrieval-Augmented Generation), LLM Models (ChatGPT – 4.0 mini)
- Tools: Git, Swagger UI, Postman, VS Code

PROFESSIONAL EXPERIENCE

Zelarsoft Private Limited, Hyderabad – Oct 2022 to Present

- Developed and deployed 4+ enterprise-grade applications across AI, DevOps, e-commerce, and intranet domains, enhancing performance and streamlining workflows.
- Designed responsive, accessible UIs using **ReactJS**, **Next.js**, **Tailwind CSS**, and **Material UI**, translating Figma wireframes into dynamic components.
- Built and integrated RESTful and real-time APIs using **Node.js** and **Python** (FastAPI), incorporating **WebSockets**, **Webhooks**, and **NATS** for efficient live communication.
- Integrated authentication and state management using **Context API** and **React Hooks** to maintain seamless user sessions.
- Optimized frontend-backend data flow using **Axios/Fetch** and **server-side rendering (SSR)** in Next.js to boost performance and **SEO**.
- Managed relational and NoSQL data using **PostgreSQL**, **MongoDB**, and **Prisma ORM**, ensuring efficient schema design and data integrity.

- Containerized applications with **Docker** and orchestrated deployments using **Kubernetes** and **Helm**, enabling scalable **microservices** across environments.
- Have experience in setting up **CI/CD** pipelines and deploying applications on **GCP**.
- Integrated **CopilotKit SDK** for intelligent AI chat capabilities and built modular **GenUI** components, enabling scalable and reusable interfaces across diverse platform integrations.
- Built **production-grade GenAI platforms** including conversational AI, Text-to-SQL analytics, and RAG systems using LLMs (Gemini, OpenAI), with session persistence, explainable outputs, feedback loops, and enterprise-grade security controls.
- Designed **multi-agent AI architectures** leveraging **LangGraph, MCP Servers, and Human-in-the-Loop workflows**, integrating knowledge bases, contextual data pipelines, and automation agents to support DevOps, analytics, and organizational operations at scale.
- Optimized application performance **React Query, code-splitting, lazy loading**, and DOM structure simplification.
- Participated in agile development cycles, contributing to sprint planning, code reviews, and bug fixing.

PROJECTS

Project Name: Siyaram Data lake (AI Trend Intelligence & Text-to-SQL Platform) | **Role:** Developer
| Team Size: 10 | **Technologies:** Next.JS, React, TypeScript, FastAPI, Python, PostgreSQL, Redis, Google Big Query, GCS, Gemini & Docker.

Description: Creative Suite is a multi-tenant SaaS platform for AI powered content generation enabling teams to create product visuals, virtual try on images, videos and marketing content with team level access and usage controls.

Key Contributions:

- Built a secure, session-based Next.js application with a tabbed workspace for trend search, fashion analysis, PDF ingestion, and Text-to-SQL analytics.
- Developed a conversational Text-to-SQL chatbot with session history, SQL extraction/display, markdown rendering, and user feedback workflows.
- Implemented advanced trend-search UI with multi-facet filtering, debounced queries, pagination, and signed-URL image proxying.
- Designed and implemented FastAPI backend services integrating Google Big Query, Discovery Engine, and Gemini for AI-driven analytics.
- Built scalable conversation and session persistence using PostgreSQL with caching via in-process stores and optional Redis.
- Containerized backend services using Docker and delivered production-ready deployment and environment documentation.

Project Name: Creative Suite | **Role:** Developer | **Team Size:** 3 | **Technologies:** Next.JS, TypeScript, Prisma, PostgreSQL, Stripe, Tailwind CSS, Docker, Python and Google Gen AI.

Description: Creative Suite is a multi-tenant SaaS platform for AI powered content generation enabling teams to create product visuals, virtual try on images, videos and marketing content with team level access and usage controls.

Key Contributions:

- Designed and developed a multi-tenant SaaS platform with team-based access, role permissions, and usage limits using Prisma and PostgreSQL.
- Integrated a Python AI backend service through secure API routes with authentication, validation, and automated quota tracking.
- Built AI content generation modules for product backgrounds, virtual try-on, video generation, and storyboarding with secure file handling.
- Implemented a standard backend integration layer to manage authentication, usage counting, and database updates across services.
- Developed content management features allowing teams to save and manage generated assets (images and videos) in a shared catalog.

Project Name: Cokpit | **Role:** Developer | **Team Size:** 8 | **Technologies:** Next.js, CopilotKit SDK, NATS, LangGraph, Python, PostgreSQL, OpenAI, Tailwind CSS, Docker, Kubernetes, GCP.

Description: Cockpit is a customizable, AI-powered organizational platform designed as a one-stop solution for integrating and automating key business operations. It supports a wide range of use cases including employee onboarding, Jira automation, SRE incident management, and DevOps operations such as CI/CD automation using multiple intelligent agents.

Key Contributions:

- Integrated CopilotKit SDK to enable AI-powered chat functionality for intelligent user interactions across the platform.
- Implemented HIL (Human-in-the-Loop) components to support agent-human collaboration in critical decision workflows.
- Developed GenUI components to dynamically support all platform integrations, improving modularity and code reusability.
- Built and integrated the Knowledge Base and MCP Server UI, connecting contextual data to AI agents for improved reasoning and task execution.

Project Name: FASTVDI | **Role:** Developer | **Team Size:** 15 | **Technologies:** Next.js, NestJS, React Query, Docker, Helm, Kubernetes, Prisma, PostgreSQL, Tailwind CSS.

Description: Developed a full-stack application for creating and managing Virtual Desktop Infrastructure (VDI) using modern technologies such as Next.js, NestJS, Docker and Kubernetes.

Key Contributions:

- Built a marketplace interface with filtering and CRUD features using Shadcn UI and React Query for efficient state management.
- Designed RESTful APIs for dynamic VDI provisioning and backend services using NestJS and Prisma.
- Implemented role-based access control (RBAC) and real-time backend communication via Webhooks, enhancing security and system transparency.
- Deployed containerized applications using Docker and managed Kubernetes workloads (excluding Helm), ensuring scalability and isolation across environments.

Project Name: Review Deals | **Role:** Developer | **Team Size:** 6 | **Technologies:** ReactJS, NodeJS, MongoDB, Google Authentication.

Description: Developed an e-commerce platform that helps users discover top product and service deals by leveraging user reviews and ratings.

Key Contributions:

- Integrated Google Authentication for secure login and personalized user sessions.
- Developed a responsive and user-friendly frontend using ReactJS, with Context API and React Hooks for effective state and session management.
- Developed backend services in Node.js to fetch product metadata and manage deal data using MongoDB.
- Implemented interactive UI components including an image slider, deal status indicators, and Excel-based bulk upload, streamlining data handling and admin operations.
- Designed a clean, modern interface to highlight trending and user-prioritized deals, enhancing overall engagement and discoverability.

Project Name: Intranet Portal | **Role:** Developer | **Team Size:** 15 | **Technologies:** ReactJS, SharePoint & SPFx, Power Automate.

Description: Developed a role-based intranet portal using SharePoint and SPFx, enhancing employee access to organizational resources and streamlining internal communication across departments.

Key Contributions:

- Built SPFx web parts using ReactJS and automated workflows with Power Automate for multiple departments.
- Migrated PowerApps/SharePoint flows, ensuring seamless functionality across departments.

EDUCATION

Master of Science(M.sc) in Physics Jul 2020 - Sept 2022
Sri Padmavathi Mahila University, Tirupathi

Bachelor of Science (B.sc) in Physics SPW Jun 2017 - May 2020
Degree & PG college

CERTIFICATIONS & TRAININGS

- Microsoft Certified: Power Platform Fundamentals (PL-900)
- Google Cloud Certified: Professional Data Engineer
- Received professional training in ReactJS and related frontend technologies, along with hands-on training in Microsoft Power Platform (SharePoint, PowerApps, and Power Automate).