

Rakesh Potnuru

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Summary

Software Engineer with over 3 years of experience specializing in full-stack development within the DeFi and AI sectors. Proven track record of leading frontend architecture for institutional-grade platforms and integrating complex backend behaviors using LangChain and Thirdweb. Expert in building scalable, high-performance UIs with Next.js and TypeScript for high-compliance environments.

Experience

Software Engineer, Chainrisk Apr. 2025 to Nov. 2025

- Frontend Leadership: Architected the frontend for AFI Protocol Agents, a high-fidelity DeFi research assistant utilizing on-chain data to provide real-time insights.
- Engineered intelligent agent behaviors by contributing to backend workflows using LangChain, bridging the gap between raw data and actionable AI responses.
- Built the interface for the AFI Financial Intelligence Ledger, a Proof-of-Reserve platform designed for institutional-grade RWA and DeFi yield management.
- Streamlined on-chain operations by integrating Thirdweb, enabling secure smart contract interaction and automated asset verification.
- Collaborated closely with product, design, and blockchain engineers to deliver reliable, performant interfaces for institutional-grade DeFi analytics.

Lead Frontend Engineer, Truffles AI Jan. 2024 to Mar. 2025

- Directed the frontend development for an enterprise AI platform that automated data extraction, underwriting, and credit modeling - contributing to 90% faster processing times showcased in customer case studies.
- Developed responsive, high-performance UIs in Next.js + TypeScript, powering features like document ingestion, multi-format data viewing, real-time AI extraction, and workflow dashboards.
- Data Management: Implemented Supabase for secure authentication, storage, and real-time database updates.
- Collaborated closely with ML engineers, backend teams, and product leads to ship scalable interfaces supporting high-compliance environments (PCI-DSS, SOC-2).

Frontend Engineer, Truffles June 2023 to Dec. 2023

- Contributed to the development of a global payments suite enabling seamless fiat & crypto rails for businesses, building responsive front-end modules aligning with product goals.
- Improved application load-performance and user experience by optimizing bundle sizes, adopting code-splitting and lazy-loading techniques.
- Implemented modular UI components in React/Next.js, collaborating closely with the Lead Frontend Engineer to translate designs into pixel-perfect interfaces.

Frontend Engineer Intern, Truffles Apr. 2023 to May 2023

- Assisted senior engineers in developing core product features using React, Next.js, and Tailwind CSS.

Projects

Publish Studio - Creator Tooling Suite Mar. 2024

- A content curation and publishing platform used by writers, marketers, and bloggers to plan, draft, and distribute content efficiently.
- Tech Stack: NextJS, Paddle, tRPC, MongoDB, TailwindCSS, Sendgrid & Resend, Redis, Posthog, ExpressJS, Vite

WithUPI Aug. 2025

- A simple Buy Me A Coffee alternative to provide an instant way to support creators.
- Tech Stack: NextJS, TypeScript, Supabase, TailwindCSS

My One Post - Minimal Social Platform

Dec. 2024

- A minimal social media platform with an aim of reducing social media addiction.
- Tech Stack: NextJS, TypeScript, NestJS, Supabase, PostgreSQL, Google Cloud (NLP, Storage), Mux, ExpressJS

Skills

Cloud Platforms: AWS, GCP, Cloudflare

IaC & Orchestration: Docker, Docker Compose

CI/CD & Automation: GitHub Actions, Jenkins

Observability & Monitoring: Better Stack

Languages & Frameworks: TypeScript, Python, NextJS, NestJS, Flask, ExpressJS, React & React Native, TailwindCSS, Sass, tRPC, Gatsby

Databases & Caching: PostgreSQL, Redis, SQLite, MongoDB

Education

Lovely Professional University, Bachelor of Technology in Computer Science and Engineering – Jalandhar, India

June 2020 to June 2024

- Major: Machine Learning