

LOHIT P

Go & Full-Stack Software Engineer

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PROFILE

Full-stack software engineer with 4+ years building and operating production products across React, React Native, backend APIs, PostgreSQL and AWS. Built Go services for Redis-backed background jobs and runner orchestration with retries, deduplication, scheduling and operational metrics. Experienced in real-time systems, testing infrastructure, CI/CD, cost-driven architecture decisions and production operations; currently deepening Go and scalable-system fundamentals through implementation.

ROLE-ALIGNED STRENGTHS

Go & backend: Go services, net/http, context, pgx, REST APIs, Redis/Valkey jobs, retries, deduplication, scheduling and operational metrics.

Frontend: Next.js, React, React Native, TypeScript, responsive admin interfaces, complex forms and workflows, offline-first features and client-side performance.

Applied AI: MCP tools, vector retrieval, contextual chat, API and database operations, and chat-driven UI actions.

Data: PostgreSQL, SQL, relational modeling, constraints, transactions, indexes, query plans, Drizzle and SQLC.

Cloud & delivery: AWS, Terraform, Docker, GitHub Actions, parallel validation, automated testing and production rollouts.

Quality & operations: unit, integration and end-to-end testing, OpenTelemetry, Grafana, Prometheus, Loki, Sentry and PostHog.

EXPERIENCE

Full-Stack & Infrastructure Engineer

Turtil, Hyderabad | Mar 2024 – May 2026

- Led mobile delivery within a lean team for the past year — owning React Native/Expo releases end to end, supporting developers, reviewing implementation choices and influencing what we built next.
- Owned the complete iOS and Android release lifecycle: OTA updates via EAS, end-to-end CI/CD, App Store and Play Store submissions, compliance, review responses and production rollouts.
- Built a native module to keep location collection alive after the React Native process was terminated, buffering locally and syncing to the server on reconnect — behavior the JS runtime cannot provide on its own.
- Designed real-time chat and live poll updates over WebSockets; migrated from a managed platform (Convex) to a self-hosted Socket.IO service to control cost as usage grew.
- Built testing infrastructure across unit, integration and end-to-end (Maestro) layers, backed by reliable backend seed data so releases could be validated automatically across iOS and Android.
- Implemented offline-first features (e.g. timetable access via local SQLite) so core functionality stayed available on poor or absent networks, with tuned scroll and data fetching for low-end devices.

Published apps: Parentz (10K+ downloads) | Turtil Campus (1K+)

Broader product & platform work

- Built Turtil CMS, a Next.js and React college-management platform for administrators and staff, covering enrollment and invitations, academics, attendance, timetables, communication and campus operations.
- Implemented an AI chat experience using MCP, vector retrieval and application tools, enabling contextual answers, API and database calls, and real UI actions from a conversational interface.
- Engineered CI/CD with change detection, parallel validation, Playwright testing and coverage gates; used AI for planning and implementation while independently validating correctness before production.
- Operated AWS infrastructure with Terraform, ECS, EC2, RDS, Lambda, S3 and CloudFront, supported by OpenTelemetry, Grafana, Prometheus, Loki and alerting.
- Built Go services for Redis-backed background jobs and runner orchestration with retries, deduplication, scheduling and operational metrics.

Mobile, Backend & Frontend Engineer

Hyposoft Global Solutions, Hyderabad | Feb 2022 – Dec 2023

- Built and shipped React Native products for cold-storage commerce and sports communities, including booking, inventory, social and real-time notification workflows.
- Implemented Node.js and MongoDB backends, Socket.IO real-time features, Firebase Cloud Messaging and payment flows using Razorpay, PhonePe and Paytm.
- Delivered polished, responsive mobile experiences and collaborated closely on evolving product requirements and design.

Frontend & Mobile Application Engineer (Intern)

Hyposoft Global Solutions, Hyderabad | Dec 2021 – Jan 2022

- Built two published React Native applications — FarmOR Partner (1K+ Google Play downloads) and FarmOR Kisaan — covering B2B purchasing, orders and inventory; also delivered FarmOR's responsive marketing website.

INDEPENDENT STUDY & PRODUCT DEVELOPMENT

Independent Study & Builder

Self-directed, Hyderabad | May 2026 – Present

- Deepening computer-science fundamentals through an implementation-first curriculum covering Go, PostgreSQL/SQL, data structures and algorithms, networking, operating systems, security, deployment and system design.
- Building production-shaped Go HTTP services with pgx, migrations and SQLC while documenting each concept and defending implementation decisions independently.

github.com/lohitcode/computer-science-from-scratch

TECHNICAL FOUNDATION

Languages: Go, TypeScript, JavaScript, SQL

Backend & data: Node.js, Hono, Express, PostgreSQL, Drizzle, Redis/Valkey, Async, REST, Socket.IO

Cloud & operations: AWS, Terraform, Docker, GitHub Actions, OpenTelemetry, Grafana, Sentry, PostHog

Web: React, Next.js, Tailwind CSS, TanStack Query, Zustand, React Hook Form

Foundations: data structures and algorithms, relational databases, concurrency, networking and operating-system fundamentals

EDUCATION

Bachelor of Technology (B.Tech.) | 2017 – 2021

Malla Reddy Institute of Technology & Science, Hyderabad