

SRINESH R

Software Engineering Intern Candidate · Full-Stack & Systems

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SUMMARY

Third-year CS student seeking a software engineering internship. I build and measure real systems — Docker-based services, React apps with auth, and Python data/ML tools — and care more about working code and tests than demos.

SKILLS

Comfortable: Python, Git, Linux, Docker, FastAPI, React (components, state, hooks), HTML/CSS

Working knowledge: JavaScript, TypeScript (basics), SQL (basics), Node.js, PostgreSQL, Redis, pytest, Vitest

Used in projects: Supabase, Traefik, WebSockets, PyTorch / Real-ESRGAN, Gradio, Rust (small TUI), npm publish

Familiar: Bash, Java (basics), C (basics), REST APIs, Firebase deploy

EXPERIENCE

AI & Data Science Intern — Osmania University TBI (OTBI)

Jun 2025 · Hyderabad

Groundwater / borewell mapping from field resistivity data

- Built a Python pipeline that turns multi-depth resistivity CSVs into contour maps, denoised profiles, and frequency graphs (Pandas, NumPy, SciPy, Matplotlib).
- Added a drilling-point predictor so site picks are not only visual guesses from charts.
- Shipped a Tkinter GUI for non-technical users to upload data, set depths, and export maps (compared in-lab to commercial-style instruments such as PQWT GT500).

PROJECTS

ReadIssue — Distributed Systems Overload Lab · [Live demo](#)

FastAPI, Docker, Traefik, PostgreSQL, Redis, React, WebSockets · 50 pytest cases

- Local lab that runs real Docker workers behind Traefik (worker cap 8), seeds **400k** product rows, and streams live metrics over WebSockets.
- Measured read-path changes under load: indexed queries **~38 ms p95**; with PgBouncer, Postgres backends for 4 workers fell from about **42 to 10**.
- Replica path cut primary multi-core CPU (Docker stats) from about **550% to 1%**; chaos injectors + threshold autoscaling included.

Spentd — Android Expense Tracker · [Live](#) · [APK](#)

Expo / React Native, Hono, Postgres, Drizzle, Zod, OCR + SMS parsers, GitHub Actions / EAS

- Privacy-first monorepo app: import UPI/bank payment screenshots (on-device OCR) and bank SMS, budgets/cash wallets, username + passcode auth (Argon2id on server; JWT client session).
- Shared Zod parsers for OCR/SMS (**~90** unit tests); optional cloud sync of structured fields only (screenshots stay local); CI + APK releases through v1.1.5.

Kairo — AI Calendar · [Live demo](#)

React, TypeScript, Supabase, LLM API, Vitest, WhatsApp bridge

- Calendar app that turns natural language, images, and PDFs into events via an LLM API; WhatsApp QR intake; Supabase auth + real-time sync; **73** tests caught **3** pre-prod issues.

Boards — UML Whiteboard · [Live demo](#)

React, TypeScript, React Flow, IndexedDB, Cloudflare Workers AI proxy

- UML editor with local IndexedDB save, PNG/PDF export, and AI diagram generation via a Worker proxy (no client-side API keys).

pngmodel — Logo Super-Resolution · [Live](#) · [ddg-spotlight](#) — Terminal Search (Rust)

PyTorch / Real-ESRGAN · ratatui TUI

- Fine-tuned logo super-res on **1,860** images (RTX 3070 Ti); Hyprrland Spotlight TUI indexes **~90k** paths in **~0.1 s**.

OPEN SOURCE & PUBLISHING

- Merged PR into [Odysseus](#) (public self-hosted AI workspace repo): fixed batch calendar event handling in `manage_calendar`.
- Published npm CLI [@srinesh/rigit](#) — single TUI flow for stage, commit, and push (v0.1.5).
- Deployed [Kairo](#), [ReadIssue](#), [Boards](#), [Spentd](#), [pngmodel](#), and [srinesh.in](#).

TRAINING & CERTIFICATIONS

- AI-ML Virtual Internship** — AICTE · EduSkills (Google for Developers India Edu Program) · Jan–Mar 2026
- Hugging Face Agents Course** — Hugging Face · 2026
- GitHub Foundations** — DataCamp · 2026

EDUCATION

B.Tech, Computer Science & Engineering — MVSREC, Hyderabad

2023 – 2027

Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks