

SRIRAM M

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PROFESSIONAL SUMMARY

Software Engineer with a strong foundation in performance-driven development, full-stack application design, and automation infrastructure. Proficient in building high-concurrency systems using Go and TypeScript, and creating highly responsive, local-first mobile architectures. Experienced in building internal developer tools and optimizing CI/CD automation pipelines within enterprise environments.

SKILLS

- Languages:** TypeScript, Go, JavaScript, Python, Java, C/C++, SQL
- Frontend & Mobile:** React Native, Expo, Next.js, React, Tailwind CSS/NativeWind
- Backend & Databases:** Spring Boot, SpacetimeDB, MMKV (C++ JSI Bindings), Drizzle ORM, MySQL, MongoDB
- Observability & Cloud:** GCP, Grafana, Dynatrace, Elasticsearch
- Tools & Infrastructure:** GitLab CI/CD pipelines, Docker, Docker Compose, Bun, Git, FFmpeg, Postman

WORK EXPERIENCE

Performance & Automation Engineer

Cognizant Technology Solutions (Client: Macy's Supply Chain) | Chennai, India

02/2025 – Present

- Develop and maintain custom k6 testing frameworks deployed to validate Macy's mission-critical Unified Orders Platform handling order creation, returns, and refunds.
- Designed and engineered an internal self-service developer tool within GitLab CI/CD pipelines, automating test execution workflows and dynamic report generation for engineering teams.
- Developed a Python automation tool to parse raw performance logs and generate structured analytics reports, eliminating **3 to 4 hours of manual developer effort** per release cycle.
- Analyze distributed system behavior and microservice health under high-stress conditions (**3,000 TPS**) utilizing GCP container logs, Grafana, and Dynatrace to isolate architectural and database bottlenecks.

Web Development Intern

DevCrew | Coimbatore, India

05/2023 – 07/2023

- Engineered frontend features and refactored core application UI components for client web projects using React.js and Next.js.
- Identified, isolated, and resolved runtime bugs and interface regressions, improving frontend stability and overall user experience.

PROJECTS

Recur | Local-First Subscription Tracker (React Native & Expo)

- Built a highly polished, local-first cross-platform mobile application utilizing TypeScript and Expo v54 with the **New Architecture fully enabled**.
- Implemented a high-performance local data storage layer using **MMKV via C++ JavaScript Interface (JSI) bindings**, bypassing standard asynchronous overhead for near-instant state operations.
- Enforced end-to-end type safety and strict data sanitization across database read/write actions using Zod schema validations.
- Designed smooth interactive interfaces using React Native Reanimated, NativeWind styling layouts, and accessible Radix UI primitives.

Koda | Music Analysis Web Application (Go & Next.js 15)

- Architected a multi-service web application designed to decode audio streams, calculate BPM, and identify musical keys.
- Developed a low-overhead backend engine in Go using Gin Gonic, implementing custom Krumhansl-Schmuckler key-detection algorithms via Gonum for FFT math and Chroma mapping.
- Orchestrated deployment workflows using Docker and Docker Compose, integrating FFmpeg codecs to handle server-side audio conversions seamlessly.

AWARDS & HACKATHONS

- Second Runner-up (National)** | Innohacks '22 – KIET Group of Institutions (Innogeeks), New Delhi (May 2022)
- Most Impactful Hack (National)** | Hack @ SKCET – Hackclub SKCET, Coimbatore (Feb 2022)

EDUCATION

Bachelor of Technology – Information Technology

Sri Krishna College of Engineering and Technology | Coimbatore, Tamil Nadu, India

06/2021 – 06/2025