SRIRAM V

Software Engineer

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ABOUT

My mission is to build robust, scalable applications and reduce system entropy. I leverage my engineering expertise and passion for problem-solving to create meaningful outcomes for customers. A fun and kind person to work with — I use Neovim, by the way.

EXPERIENCE

Software Engineer

Vue.ai (acquired) · 2023–Present

- Refactored an internal gateway and RBAC service, increasing request throughput by 60%.
- Built a data-egress pipeline as an Airbyte connector supporting Delta, SQL, files, and Elasticsearch. Its dynamic buffering strategy prevents out-of-memory errors and improves concurrent read/write throughput.
- Implemented change-data-capture syncs for Delta tables without Change Data Feed enabled, using RocksDB.
- Maintained a multi-cloud abstraction library supporting AWS, Azure, and GCP managed services; added bare-metal service support with 100% backward compatibility.
- Developed diagnostic tooling to trace HTTP request latency bottlenecks and SQL query runtime, and built a Grafana dashboard for gateway service monitoring.
- Prototyped a Linkerd service mesh and a centralized federated query engine with Trino; benchmarked latency and resource trade-offs.
- Developed an in-house implementation of one-time passwords for the user authentication flow.
- Built a central admin dashboard server for auditing encryption keys & secrets across all clusters and cloud providers.
- Built a loop engineering framework for our monorepo. Autonomously creates a PR for a reported issue. Persists developer knowledge corresponding to microservices as the agent interacts with the developer.

PROJECTS

HTTP Server from Scratch

Go

- Parses the request line, status line, and body from a plain TCP connection according to RFC 9110 (HTTP/1.1).
- Implements chunked transfer encoding for larger files and response construction.
- Provides a non-blocking HTTP server built with goroutines and channels, with tests written using Testify.

AI Chatbot

Python

- Uses the Hugging Face API over WebSockets, Redis for storage, and Python FastAPI.
- Uses a message queue to handle traffic spikes and reduce data loss.

SAO — Share Arts Online

Android / Kotlin

- Unifies image and video handling in a single carousel and applies Kotlin best practices.
- Implements an infinite scroller with MVVM, Retrofit, Coil, Dagger Hilt, Media Columns API, FileProvider API, and a Gradle version catalog.
- Assisted the Google Material Views team in resolving a bug related to the Material 3 Carousel View.

watgbridge

Go

- A bidirectional proxy bridge between WhatsApp and Telegram for messages, images, videos, stickers, voice notes, documents, and locations.
- Supports multiple database backends with automatic migration.
- Distributed through GitHub Actions and packaged with Dockerfile, Nix flake, and systemd service definitions.

SKILLS

- **Languages & development:** Go, Python, Kotlin, Bash, C++, SQL, GNU/Linux, tmux, herdr, OpenCode, Claude code, Android Studio
- **Cloud & infrastructure:** AWS, GCP, Azure, OCI, baremetal, Kubernetes, KEDA, Docker, Tailscale, Helm, Argo CD, GitHub Actions
- **Data & observability:** SQS, Redis, Kafka, Grafana, Delta Lake, Airbyte, Keycloak
- **Engineering:** Design patterns, system architecture, self-directed learning

INTERESTS

Homelab & self-hosting — Experimenting with new technologies and documenting procedures for reproducibility.
Reading — High-volume reading habit, especially Japanese light novels and web novels.

EDUCATION

B.Tech in Information Technology

SVCE, Anna University · May 2025

GPA: 3.9 / 4.0 (90.4%)

High School (Class XII)

Chettinad Vidyashram · May 2020

GPA: 4.0 / 4.0 (94.4%)