

Saranyan Sankrith Srinivasan

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Summary

System Architect (Backend & Data Platform) with 7 years of experience turning complex data and infrastructure problems into scalable, production-ready platforms. Delivered faster insights and lower operating cost by rebuilding pipeline architecture, optimizing storage and queries, and hardening deployments for customers.

Experience

CleverInsight

Kotagiri, India

System Architect (Backend & Data Platform)

Apr 2022 – Present

- Built Go plugins for a US AIOps platform to fetch, normalize, and stream observability data within an existing agent framework; shipped production integrations on schedule while ramping quickly on the codebase and architecture.
- Co-architected and delivered **Waddle**, a custom time-series database in Go, driving decisions on encoding, sharding, storage layout, and retrieval paths; improved read throughput from **100K to 250K records/sec** and reduced storage footprint to **25%** versus conventional time-series solutions for the same dataset.
- Productized Waddle from a CLI into a service by implementing REST APIs (Gorilla/mux) and operational tooling, enabling internal teams to adopt it for low-latency analytics over high-volume event streams.
- Led the ELSA engagement's platform redesign: simplified an over-engineered stack and rebuilt end-to-end pipelines (Airflow with Python DAGs, Airbyte, Kafka, Snowflake, dbt), achieving **99% metric accuracy** across Finance/Marketing/Product and aligning data models directly with stakeholder requirements.
- Modernized and tuned the ELSA platform by upgrading Airflow/Airbyte, consolidating workflows, and refactoring dbt models, reducing scheduled jobs by **60%**, cutting query runtimes by **80%**, and lowering Snowflake cost by **25%**.
- Designed and operated B2B backend deployment flows for Predicteasy, packaging Go services as licensed Docker images and defining rollout and health-check patterns so new tenants could be onboarded reliably within customer infrastructure.
- Returned to core platform work in 2025: led the migration of an accounts/auth service from Node.js to Go to improve correctness, performance under concurrency, and operational maintainability.

Tata Consultancy Services

Chennai, India

Systems Engineer

Aug 2019 – Mar 2022

- Supported and enhanced data pipelines for an Australian banking client, monitoring scheduled jobs and production workflows to maintain SLAs for downstream operations.
- Wrote and optimized complex SQL for ETL workflows and reporting, improving query performance and ensuring data correctness across multiple upstream and downstream systems.

Skills

Backend & systems: Go, Python, System Design, Distributed Systems, Data Modeling, API Design

Data platform: Data Pipelines, Airflow, dbt, Kafka, Snowflake, SQL, Data Warehousing

Infrastructure: Kubernetes, Docker, Containerized Deployments, Production Workload Orchestration

Additional: Databases, Monitoring and Observability, Stakeholder Collaboration for Data Products

Projects & Other Engagements

Dottodebt – Personal Finance Platform (dottodebt.com)

- Built **Dottodebt**, a personal finance application in Next.js focused on helping users track and manage debt across multiple accounts, emphasizing clear repayment strategies and progress visibility.
- Designed data models and Supabase-backed flows for recurring payments, payoff projections, and aggregated views of liabilities, then deployed the application on Vercel to support a simple, low-ops production setup.

CleverInsight (University Programs)

Instructor – Data Engineering & Data Science

- Delivered hands-on classes and workshops for partner programs at Christ University, IIM Ahmedabad, CIT, and the Reserve Bank of India, covering data engineering foundations and production analytics workflows.

Education

Sri Sairam Institute of Technology (Anna University)

B.E. Mechanical Engineering

CGPA: 8.54

2019