

# Siva Sambath Mudaliar

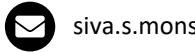
Senior Golang Developer



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[Linkedin](#)



[Github](#)

## Education

BACHELOR OF COMPUTER

SCIENCE

University of Kent

3.7/4.0 GPA

Apr 2006 – Jul 2009

## Key skills

Golang	+11
Python	+11
React	+8
Node	+8
Docker	+8
Kubernetes	+8
TypeScript	+8
Kafka	+9
AI/ML	+7
CI/CD	+8
AWS	+8
GCP	+4
Lambda	+8
SQL/NoSQL	+8
Java	+4

## Summary

Senior Software Engineer and Golang Specialist with **15+ years of experience** in designing, building, and operating **large-scale, distributed systems in production environments**. Deep expertise in **Go, cloud-native microservices, and event-driven architectures**, including **REST, gRPC, Kafka, and GraphQL**. Proven track record of modernizing legacy systems, improving performance and reliability, and leading complex migrations across **AWS, Kubernetes, and serverless platforms**. Strong background in **observability, CI/CD automation, and infrastructure as code**, with hands-on experience integrating **AI/ML pipelines and real-time streaming workloads**. Recognized for **technical leadership, incident management, and mentoring engineering teams** to deliver **resilient, scalable backend platforms**.

## Experience

Senior Golang Developer

Jan 2023 – Present

**AIRISTA | Sparks, MD**

- Built and owned a suite of **high-performance, cloud-native backend platforms**, including **event-driven microservices, real-time streaming pipelines, AI-powered internal tools, and operational dashboards**, serving production workloads at scale.
- Designed and implemented **Golang-based microservices** using **REST, gRPC, and GraphQL APIs**, optimizing concurrency, memory usage, and latency for high-throughput systems.
- Modernized legacy platforms by migrating services from **Python and JavaScript** to **Go and TypeScript**, improving performance, reliability, and type safety.
- Implemented distributed **messaging and stream-processing systems** using **Kafka**, including producers/consumers, consumer groups, partitioning strategies, Kafka Streams, and event sourcing patterns.
- Built **AI-enabled services**, including a **Slack GenAI bot** integrated with **retrieval-augmented generation (RAG)** pipelines using **OpenAI, Pinecone, and Databricks-trained models**.
- Deployed and operated **containerized and serverless workloads** on **AWS EKS and Lambda**, using **Docker, Helm, API Gateway, DynamoDB**, and multi-stage builds for efficient runtime performance.
- Established **end-to-end CI/CD pipelines** with **Jenkins and GitHub Actions**, automating testing, security scans, infrastructure changes, and multi-environment deployments.
- Implemented **full-stack observability** using **OpenTelemetry, Prometheus, and Grafana**, exposing service-level metrics, traces, and alerts for proactive incident response.
- Designed **scalable data platforms** leveraging **SQL/NoSQL stores, Neo4j graph models, and Databricks pipelines** to support analytics, recommendations, and real-time insights.
- Built **internal frontend tools and dashboards** using **React (v18), TypeScript, and Redux** to visualize service health, Kafka flows, and operational metrics.
- Automated **infrastructure and platform operations** by developing **Terraform modules, CloudFormation stacks, and custom Kubernetes operators** in Go.
- Improved **developer productivity and reliability** by building **Go-based CLI tools, Jenkins shared libraries, and standardized deployment and rollback workflows** across 20+ services.

# Siva Sambath Mudaliar

Senior Golang Developer

- Provided **technical leadership** through incident response ownership, architecture reviews, internal workshops, and mentoring on **Golang, Kafka, CI/CD, and cloud-native service design**.

**Technologies:** Golang, Python, TypeScript, JavaScript, Java, REST, gRPC, GraphQL, Node.js, AWS (EKS, Lambda, API Gateway, IAM, S3, CloudWatch, VPC, ECR), Docker, Kubernetes, Helm, Kafka, Kafka Streams, PostgreSQL, DynamoDB, MongoDB, Neo4j, SQL/NoSQL, OpenAI, Pinecone, Databricks, OpenTelemetry, Prometheus, Grafana, Jenkins, GitHub Actions, Terraform, CloudFormation, React, Redux

Senior Golang/Python Developer

Feb 2020 – Dec 2022

TTEC | Austin, TX

- Built and operated a **real-time voice translation platform**, including **SIP-based VoIP services, low-latency audio streaming pipelines, dynamic call routing, and multilingual transcription workflows**, supporting production-scale communications.
- Designed and implemented **Golang microservices for real-time audio processing** using **gRPC bi-directional streaming**, optimized for low latency, resilience, and high concurrency.
- Engineered **SIP call handling logic** in Go (INVITE, ACK, teardown) and integrated **WebRTC, RTP streams**, and **cloud-based TTS/ASR providers** for seamless voice translation.
- Implemented **Kafka-based streaming pipelines** to process high-throughput audio metadata, transcription events, and post-call analytics with consumer groups and fault tolerance.
- Developed a **dynamic call routing engine** that adapts based on language, region, and network conditions, improving call quality and translation accuracy.
- Built **observability and monitoring systems** using **Prometheus and Grafana**, exposing metrics for jitter, latency, packet loss, gRPC performance, SIP signaling, and SLA reporting.
- **Designed SQL-based analytics and persistence layers**, tuning **PostgreSQL queries and indexes** for call history, translation logs, errors, and audit-compliant user profiles.
- Developed and maintained **backend services in Java**, applying clean architecture, OOP principles, and design patterns to deliver reliable REST APIs integrated with relational databases.
- Built **frontend applications and internal tools** using **React and TypeScript**, securing routes with **JWT**, and optimizing performance through lazy loading, memoization, and reusable components.
- Hardened **system security** and **reliability** by implementing **TLS/mTLS**, Prometheus alerting for gRPC failures and Kafka lag, and conducting load testing with SIP traffic simulators.
- Improved **code quality** and **team velocity** through code reviews, performance tuning, reusable test frameworks, and CI tooling with **ESLint, Prettier, ts-node, and automated checks**.
- Collaborated in **Agile teams** to deliver scalable, production-ready systems, ensuring reliability of concurrent SIP and gRPC workloads under real-time constraints.

**Technologies:** Golang, Python, Java, TypeScript, JavaScript, SIP, VoIP, WebRTC, RTP, gRPC (bi-directional streaming), REST, Kafka, PostgreSQL, SQL, Prometheus, Grafana, React, JWT, TLS, mTLS, ESLint, Prettier, ts-node, CI/CD, TTS, ASR, cloud-based speech APIs

# Siva Sambath Mudaliar

Senior Golang Developer

Sr. Go Developer

**Uber** | San Francisco, CA

Jun 2013 – Jan 2020

- Built and operated **large-scale backend platforms** supporting high-throughput **gRPC APIs, distributed workflows, real-time event streaming, and payment systems**.
- Designed and migrated services to **Golang gRPC**, improving latency, schema control, and reliability, and replacing legacy REST and cron-based orchestration with **Cadence workflows**.
- Implemented **event-driven architectures** using Kafka and Kafka Streams, with **Protobuf/Avro schema evolution** for backward compatibility across producers and consumers.
- Optimized data and reliability layers by tuning PostgreSQL queries, managing **schema migrations**, and implementing **rate limiting, authentication, and centralized logging**.
- Built full-stack **observability and alerting** with **OpenTelemetry, Prometheus, and Grafana**, enabling faster incident detection and recovery.
- Led **incident response** and **platform reliability efforts**, including triage, game-days, postmortems, and standardized playbooks, while improving developer productivity through shared mono repo tooling and Go-based CLIs.

**Technologies:** Golang, gRPC, REST, Cadence, Kafka, Kafka Streams, Protobuf, Avro, PostgreSQL, SQL, OpenTelemetry, Prometheus, Grafana, Flyway, Liquibase, Go Modules, Bazel, CI/CD, mono repo tooling

Application Developer

**Humana** | Louisville, KY

Jan 2010 – May 2013

- Built and operated scalable, serverless backend platforms, including **high-throughput Golang REST APIs, AWS Lambda-based event-driven services, and MongoDB-backed data stores**.
- Designed and implemented **Golang microservices** using **net/http, mux, chi, and concurrency patterns (goroutines, channels)** to deliver low-latency, standards-compliant APIs.
- Modernized **legacy systems** by refactoring **monolithic Python backends** into modular **Golang services**, reducing deployment bottlenecks and operational overhead.
- Designed **NoSQL data models and ingestion pipelines** using **MongoDB and Python ETL workflows**, optimizing schema design, indexing, aggregation pipelines, and data migrations.
- Implemented security, reliability, and testing best practices, including **JWT-based authentication, custom middleware, input validation, and comprehensive unit integration tests with httpptest and testify**.
- Deployed and monitored **production services** using **AWS Lambda, API Gateway, containerized Golang services, and MongoDB Atlas**, supported by custom logging and metrics dashboards.
- **Improved team quality and delivery** through code reviews, mentoring, reusable Python tooling, and CI/CD automation.

**Technologies:** Golang, Python, REST, AWS Lambda, API Gateway, MongoDB, MongoDB Atlas, NoSQL, net/http, mux, chi, JWT, Docker, CI/CD, Flask, ETL, httpptest, testify, concurrency (goroutines, channels)