

Gokul Seenivasan

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🌐 gokul1101 • Portfolio

Experience

Vendasta, Software Developer III

2024 Sep - Present.

- **Architected BookMeNow**, a multi-tenant Angular scheduling platform with modular design and RxJS-driven workflows, reducing initial bundle load by 30% and improving UI latency across 3 products.
- **Developed an MCP-based AI platform in Go**, exposing scheduling workflows as LLM-callable tools that enabled autonomous booking, rescheduling, and availability management through conversational AI interfaces.
- **Designed AI agent orchestration and function-calling contracts**, enabling LLMs to reliably translate natural-language requests into validated gRPC operations with deterministic execution and error handling.
- **Implemented OAuth 2.0 (PKCE) authentication in Go** for Microsoft 365, Google Calendar, and Zoom, building a reusable auth abstraction that standardized third-party connectivity across products.
- **Drove two high-impact production fixes** — migrating a deprecated third-party integration in a Go microservice within one week with zero downtime and resolving 50% of UI defects, reducing customer support tickets by 20%.

Predigle, Senior Software Engineer

2022 May - 2024 Sep

- **Led and mentored a 12-member engineering team**, owning architecture, sprint execution, and delivery of two flagship products in a startup environment.
- **Delivered a cross-cloud backend rollout**, automating Docker image sync from GCP Artifact Registry to AWS ECR and integrating API Gateway → NLB → ALB → EKS, transforming an internal video service into a customer product.
- **Engineered and optimized MongoDB data models**, reducing query latency by 60% and enabling faster access to critical application data.
- **Designed a distributed event-driven processing pipeline** on GCP where TPA file uploads automatically triggered **7 parallel Cloud Run services**, significantly improving throughput and eliminating manual operational workflows.
- **Automated scalable file ingestion and processing**, dynamically spawning per-file workflows to parse TPA data and persist results into respective database tables, significantly reducing operational overhead as job count grew.

Skills

AI / LLM: LLMs (GPT-4, Claude), MCP, AI Agents, Tool/Function Calling, Prompt Engineering, RAG, Embeddings, Vector Databases

Distributed Systems: Microservices, Event-driven Architecture, Pub/Sub, Distributed Workflows, Kubernetes

Backend: Golang, Java, Node.js, Express.js, gRPC, REST APIs

Frontend: Angular, RxJS, TypeScript, HTML, CSS, Micro Frontend Architecture

Data & Search: PostgreSQL, MongoDB, Elasticsearch

Cloud & Infrastructure: GCP, AWS, Docker, Cloud Run, CI/CD

Auth & Integrations: OAuth 2.0 (PKCE), Microsoft Graph, Google Calendar API

Tools & Practices: Git, Linux, NGINX, PM2, Code Review, Agile

Projects

Loop - Online Learning Platform

- **Delivered a LeetCode-style assessment platform** used by 500+ active students, enabling timed MCQ and coding contests with role-based admin workflows, multi-college onboarding, and secure auto-submission.
- **Built a real-time code evaluation engine** for C and Java using gcc/javac executing submissions against test cases, returning results via APIs, and removing runtime artifacts.
- **Implemented progress tracking and analytics dashboards** to monitor student performance across contests and practice sessions, improving engagement and enabling data-driven interventions by instructors.
- **Tech Stack:** React, Node.js, Express, MongoDB, NGINX and PM2.

Education

K.S.R. College of Engineering
B.E. Computer Science & Engineering

Namakkal, Tamil Nadu
2018–2022