

# SREERAM GANESAN

**Engineering Lead – Scalable Distributed Systems | Gen AI | Identity & Access | Cloud-native Architecture**

**Email:** sreeram.ganesan@outlook.com | **Phone:** +91 9600074148 / +44 7442123297

**Location:** Bangalore | **LinkedIn:** sreeram-ganesan

## SUMMARY

Engineering Leader with 12+ years of experience building high-scale, secure, and globally distributed backend systems across. Proven record leading teams across India/UK to deliver resilient, high-performance services for millions of users. Strong expertise in OAuth 2.0, OIDC, SSO/MFA, identity federation and security-first design. Adept at architecting micro-services in Golang/Python/Java, optimising performance, and driving large-scale platform migrations to AWS/Azure/GCP. Known for building high-performing teams, defining engineering roadmaps, and shipping modern identity capabilities with strong reliability, governance, and user experience.

## PROFESSIONAL EXPERIENCE

### DILIGENTA — TECH LEAD II

**Edinburgh | 2024 – Present**

**Leading engineering for Gen AI first, secure and high-scale services across multiple business units.**

- Architected and shipped an AI-agentic research engine that chains open-source Llama-3 models with vector-grounded search and an optional human-in-the-loop safety gate. The system pushed factual-accuracy audits from **88 % → 97 %**.
- Designed a **unified customer entity graph** and H3-based identity-conflation pipeline to consolidate multi-source identity and location data with **95%+ match precision**.
- Delivered **high-performance backend services** with strict security controls, caching, and rate limiting supporting million-scale workloads.
- Centralized authentication and authorization by extracting IAM logic from legacy systems into a modern API Gateway layer, enabling **standards-based token validation, unified access policies, and a clean migration path away from tightly coupled legacy integrations**.
- Led a cross-functional team of engineers; established engineering standards, mentoring rhythms, automated testing, and observability across services.  
**Tech:** Golang, Python, Postgres, Redis, Kubernetes, Terraform, H3, LangGraph, DuckDB

### DILIGENTA — TECH LEAD I

**Edinburgh | 2022 – 2024**

**Owned Identity & Payment platform engineering for major UK insurance and pension clients.**

- Led the **migration of a legacy on-prem API gateway (Layer7)** to cloud-native micro-services on AWS — improving resilience, monitoring, and security hardening.
- Implemented **adaptive MFA (RFC-6238 compliant)** in-house to bridge gaps in the client IDP; reduced authentication failures and improved device onboarding.
- Built internal developer-facing micro-services including a **secure URL shortener** (delivered in under a week) using signed tokens and gateway-level validation.

- Designed and shipped an **eSignature workflow** integrated with DocuSign, reducing advisor turnaround times by **50%**.
- Shipped payment enhancements (Apple Pay, Google Pay), increasing digital payment adoption by **10%**.  
**Tech:** Golang, Java, Layer7, MongoDB, Redis, S3, DocuSign, Kubernetes

## **TATA CONSULTANCY SERVICES — SENIOR ENGINEER**

**Bangalore | 2018 – 2022**

**Identity, IAM integrations, and multi-cloud backend engineering for UK clients.**

- Built a **full SSO solution** using **Forgerock IDP**, including OAuth/OIDC flows, consent handling, and policy-based access.
- Migrated core backend infrastructure from AWS ECS → Azure AKS, improving cost efficiency and reducing deployment times.
- Implemented **semantic document search** as a micro-service using embeddings + Elasticsearch, supporting millions of documents.  
**Tech:** OAuth 2.0, OIDC, Forgerock, Kubernetes, Terraform, Python, Angular MFE

## **TATA CONSULTANCY SERVICES — SOFTWARE ENGINEER (R&D)**

**Chennai | 2016 – 2018**

- Built a high-throughput **WebSocket messaging server** handling **40M+ messages/day** with low-latency fan-out.
- Designed AI-driven mentor–mentee recommender improving match success by **30%**.
- Developed MS Teams–integrated nudging platform using Bot Framework, secure webhooks, and adaptive cards.  
**Tech:** Golang, ElasticSearch, AWS Lambda, Ruby on Rails, Neo4j

## **ADVISORY BOARD COMPANY — ASSOCIATE ENGINEER**

**Chennai | 2014 – 2016**

- Built HMAC-based service authentication libraries used across internal microservices.
- Developed an extensible webhook framework enabling cross-system communication & CI/CD triggers.

## **ADVISORY BOARD COMPANY — INTERN**

**Chennai | 2014**

- Implemented ML-based spell-corrector for medical terminology, improving query accuracy.

## **EDUCATION**

**B.Tech – Computer Science & Engineering**

Amrita School of Engineering (2010 – 2014)