

# DIVAKARAN T

Software Engineer | Backend

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## Summary

Backend Engineer focused on designing low-latency distributed systems and cloud-native microservices. Experienced in scaling services from zero to tens of thousands of requests per second, with a proven record of improving system throughput, latency (P95 < 1 s), and developer efficiency through observability, automation, and clean architecture.

## Skills

### Programming Language

Java, Go

### Cloud & DevOps

Docker, Kubernetes, Gitlab CI/CD, API Gateway, AWS (EC2, ECR, EKS, Lambda, S3, RDS)

### Frameworks

Spring Boot, Spring Security, GoFiber, Hibernate/JPA

### Databases & Caching

PostgreSQL, Redshift, Redis, Kafka

## Work Experience

### Solinas Integrity

September 2024 - Present

Software Engineer L2

Chennai

- Led a **5-member team** in delivering production microservices, collaborating with product managers and clients to drive POCs and define technical requirements.
- Designed and developed **6 Java-based microservices** (core, notification, storage) using Spring Boot and PostgreSQL, reducing P95 API response time from **2s to <1s** through indexing, connection pooling, and Redis caching.
- Integrated Python-based inference services using Flask APIs, delivering **100% faster inference** results and reducing manual deployment time from **3+ hours to <15 minutes** through automated CI/CD pipelines.
- Developed Kafka event streaming pipeline to process **25K+ inference events/hour** into Redshift, enabling real-time dashboard analytics with **<2s query response time (down from 8s)**.
- Participated in **agile processes**, including **code reviews**, **sprint planning**, and collaborating on **architecture decisions**.

### Grootan Technologies

February 2022 - August 2024

Software Engineer L1


Chennai

- Implemented custom keycloak IAM flow solutions with custom authenticators, achieving a **90% faster customer onboarding** while strengthening security.
- Developed BPMN-based workflow automation with REST/Webhook integration using **Java** for core services and **Go** for concurrent job processing, reducing manual workflow execution time by 60% through optimized Goroutine-based handlers.
- Scaled the IAM product platform to onboard from 3k to **5k+ users/s** in production by optimizing KeyCloak, database queries, and caching strategies to handle live traffic seamlessly, which earned me "**Best Find Of The Year**" award.
- Diagnosed and resolved production performance issues through **debugging**, **log analysis**, and profiling with **Jaeger**, reducing average response time from **2s to 1.2s (40% improvement)**.
- Collaborated directly with clients to gather requirements, present solutions, and manage communications while contributing to knowledge-sharing initiatives.

Projects Experience

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DCache | Custom In-Memory Cache

 [Github Link](#)

Tech Stack: Java, Concurrency, LRU, TTL, ExecutorService, JMH (benchmarking)

- Designed and implemented a thread-safe LRU in-memory cache inspired by Caffeine, supporting **O(1) lookups**, per-entry TTL, async refresh, and background expiry cleanup.
- Benchmarked with JMH at 50K–60K ops/sec with predictable O(1) access under concurrent load.

Distributed API Rate Limiter as a Service

Tech Stack: Java, Spring Boot, Redis

- Designed a configurable rate limiter service supporting both **Token Bucket** and **Sliding Window** algorithms, enabling simulation of production API gateway behaviors.

Achievements & Contributions

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- Published 2 internal technical articles on microservices, SSE, and backend optimization.
- Actively volunteered in CSR initiatives at the workplace, supporting community development.

Grootan

- Contributed to GitHub Advisory Database reliability for the IAM community ([view contributions](#)).
- Volunteered as a peer mentor providing guidance for junior developers in backend problem-solving.

Awards & Recognition

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Chief Guest Invitation

College Club Inauguration

Honored as keynote speaker for technical achievements and industry contributions

Best Find Of The Year

Grootan

Recognized for exceptional contributions to product development and technical innovation

Education

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Alpha Group of Institutions

March 2019 - March 2022

Bachelor of Computer Application

BCA