

Sai Praneeth

SENIOR SOFTWARE ENGINEER | DISTRIBUTED SYSTEMS · CLOUD · FINTECH

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Experience

Oracle Cloud (OCI)

Aug 25 - Present

SENIOR SOFTWARE ENGINEER

- Designed, developed, and maintained OCI's customer-facing inter-region Network Performance Monitoring (NPM) solution, delivering minute-level round-trip time visibility across **150+ cloud regions** in multiple isolated OCI realms.
- Designed, implemented, and migrated the global network telemetry pipeline from PySpark to **Kafka Streams**, reducing costs from **\$20K to \$10K/day**.
- Extended the global network telemetry pipeline to ingest metrics from OCI's multiplanar network topology. The overall pipeline processes **~10 billion metrics per minute** across **~100 regions**, delivering metrics to customer monitoring systems in under **10 seconds**.
- Re-architected and migrated regional operations workloads from dedicated hosts to **serverless** infrastructure, eliminating host maintenance and reducing infrastructure costs.

Slice

June 22 - Aug 25

SENIOR SOFTWARE DEVELOPER

- Architected and built a Data as a Service (DaaS) platform managing **10+ TB** of data across the organization, cutting data-access turnaround time from **3 days to under 5 minutes** while maintaining SOC 2 compliance.
- Led development of an in-house Unified Payments Interface (UPI) switch that processed **5M+** transactions daily.
- Deployed a **multi-region, on-premises Hardware Security Module (HSM)** solution for UPI PIN management, ensuring high availability and disaster recovery.
- Built a memory-efficient UPI virtual payment address (VPA) blacklist with a Bloom filter to strengthen fraud prevention.
- Built the Sanction Screening Service end to end, enabling checks against **100+** global sanctions lists to prevent fraud.
- Built the initial Avatar service to generate **personalized profile avatars** from user selfies in **real time**.
- Reduced risk-assessment latency **10x**, from 20 seconds to under 2 seconds, across **100+ decision factors**.
- Designed and deployed an AWS **Lambda-based NameMatch** service to compare names across sources, detect fraudulent patterns, and resolve cross-service inconsistencies, reducing customer onboarding errors by **10%**.
- Integrated Sentry, APM, and VictoriaMetrics to improve monitoring and diagnostics.

Swiggy (SuprDaily)

Sep 21 - June 22

SOFTWARE ENGINEER

- Integrated Algolia's personalization engine to tailor item displays and rankings to customer interaction history, increasing click-through rate (CTR) by **40%+**.
- Coordinated with multiple teams to fix cross-page pricing inconsistencies and deliver **uniform prices** throughout the app.
- Implemented regional best-seller features with real-time catalog updates, achieving a **70% add-to-cart rate** for featured items.

HyperVerge

Dec 19 - Sep 21

SOFTWARE ENGINEER

- Led the migration from a **monolith to microservices**, improving throughput by **60%** through optimized service boundaries and inter-service communication.
- Containerized** the application and implemented CI/CD pipelines, cutting deployment time from hours to minutes.
- Built an ML model deployment pipeline using Amazon S3 and versioning, separating model artifacts from application code and enabling updates without code changes.
- Designed and built an end-to-end document verification service covering data processing, extraction, and validation at **50+ requests per second**.
- Built an **ID-card assessment and categorization** solution to identify card types and select the appropriate ML models for verification.
- Implemented **end-to-end encryption** for cross-border data transfers using asymmetric encryption and key rotation.
- Built a region-agnostic service that automatically masked personally identifiable information (PII), including ID numbers on identity cards.

Stacks

Languages

Java, Go, Python, Node, TypeScript/JavaScript

Frameworks

Spring Boot, Gin, FastAPI, Django, Flask, Express, Fastify, NestJS

Technologies & Tools

AWS, OCI, Docker, Kubernetes, PostgreSQL, MySQL, Redis, MongoDB, Elasticsearch, Spark
Kafka, Git, Linux, ArgoCD, Grafana, Prometheus, Terraform, Micrometer, VictoriaMetrics

Core Competencies

Distributed Systems, Microservices, Object-Oriented Design, Database Design, SQL, NoSQL
Data Structures & Algorithms, REST, gRPC

Education

Vellore Institute of Technology

B.Tech Computer Science | 8.14/10