Nayan Kumar Hanchate

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PROFESSIONAL SUMMARY

Backend engineer with close to 4 years building highly available, API-first services in Go and Python for regulated financial services. Designed gateway security for 175 services, owned a 45-service migration (20 in Go), and builds event-driven systems on Kafka, RabbitMQ and SNS/SQS with PostgreSQL tuned for scale.

TECHNICAL SKILLS

Languages: Go, Python, C++, JavaScript, TypeScript, SQL

Backend & APIs: FastAPI, Spring Boot, GraphQL, gRPC, REST, OpenAPI, WebSocket, SSE, WebRTC, OAuth 2.0, Kong API Gateway, NGINX

Distributed Systems & Messaging: Apache Kafka, RabbitMQ, Redis, Celery, Debezium, Rate Limiting

Databases: PostgreSQL (PgBouncer pooling, LISTEN/NOTIFY), MySQL, MongoDB, Cassandra, Elasticsearch

Cloud & Infrastructure: AWS (ECS, EC2, Lambda, S3, SQS, SNS, ALB, CloudFront, CloudWatch, Secrets Manager), GCP (Apigee, Cloud Storage, Load Balancing), Kubernetes, Docker, Terraform

AI Engineering: LLM agents, structured tool calling, prompt engineering, validation guardrails

Observability & Frontend: Dynatrace, Prometheus, Loki, Tempo, React, Vite

PROFESSIONAL EXPERIENCE

BDIPlus Labs Pvt Ltd | Software Engineer II
June 2025 - Present

Client: Prudential

- Designed and rolled out Kong API Gateway authentication, authorization and rate limiting for 175 client-facing services across 6 clusters, behind a single ingress with consistent security and traffic policies.
- Owned the migration of 45 priority services to standardized Go and Python (20 in Go), building a framework on shared libraries so every service ships identical audit logging and response formats.
- Built an LLM agent pipeline that migrates legacy codebases to the new standard using structured tool calling, prompt engineering and validation guardrails, cutting per-service migration effort from 3 days to 1 day.
- Automated OpenAPI spec-driven deployment for 20 Domain Services client-facing APIs: specs are generated, tested against the internal framework and raised as PRs straight into architect review.
- Implemented the Transactional Outbox pattern with Dynatrace tracing and S3 log archival for reliable, traceable events.

Internal Product: Modenx

- Built a batch workflow plugin in Go that let an external research team label data in bulk, saving up to $500K in labeling costs.
- Developed and maintained high-throughput Python applications, improving processing speed by 35%
- Pulled a module out of the monolith into its own service, restructured its REST APIs and added PgBouncer pooling for PostgreSQL, bringing p95 response time from 2s to 300ms..
- Reworked SSE-based logging and DAU tracking to close connections for screens no longer in view, removing duplicate data delivery and correcting DAU counts.
- Built a scheduled data-processing service that crunches 100k+ records/day of customer data for analytics.

Kalvium | Full Stack Developer
September 2023 - May 2025

- Raised peak-load throughput from 300 to 1,200 req/s by moving work to async Kafka and Celery workers backed by Redis caching.
- Architected a shared React design system published as a private NPM library (TypeScript, Vite, semantic versioning), cutting UI development time by 40% across 3+ internal teams.
- Built an Elasticsearch search layer fed by a PostgreSQL LISTEN/NOTIFY indexing service, making updates searchable without extra load on the primary database.

Infogic | Software Developer
January 2023 - August 2023

- Delivered search, multi-criteria filtering and dynamic forms, cutting time to find products from minutes to seconds.

EDUCATION

KLE Technological University, Bachelor of Engineering — August 2016 - August 2020

Masai School, Diploma in Computer Science — January 2022 - December 2022

AWARDS

Outstanding Performer, BDIPlus Labs: Kong API Gateway setup and agent-based migration automation. View certificate