

SAHIB NANDA

Bengaluru, India · sabbykabby12@gmail.com · 9953062283
linkedin.com/in/sahib-nanda · github.com/thesahibnanda-max · leetcode.com/u/imsahibnanda ·
codeforces.com/profile/shisukenohara · sahib-nanda-portfolio.vercel.app

SKILLS

Languages: Go, Java, Rust, Python, TypeScript, C, C++
Frameworks & Testing: Spring Boot, Micronaut, Flask, Gin, React, JUnit 5, Testcontainers
Distributed Systems & Streaming: Kafka, Apache Flink, gRPC, Protocol Buffers (ProtoBuf), Avro, Event-Driven Architecture, System Design, Data Structures & Algorithms
Cloud Platforms: AWS, GCP, Microsoft Azure
Databases, Storage & Search: PostgreSQL, MySQL, Cassandra, Aerospike, Redis, Valkey, MongoDB, AWS DynamoDB, Elasticsearch, OpenSearch
Infrastructure & Tooling: Docker, Kubernetes, Terraform, GitHub Actions, Linux, AWS ECS, AWS EC2, Microsoft Azure VMs, Cadence, Temporal, AWS Step Function
AI-Assisted Engineering: Claude Code, OpenAI Codex, Gemini CLI

EXPERIENCE

CRED - Backend Developer · Bengaluru, India · Sep 2024 - Present

- Engineered a high-throughput search service in Go, migrating inter-service communication from JSON to Protocol Buffers (ProtoBuf); reduced payload size and lowered AWS load balancer bandwidth costs by an estimated 28%.
- Architected resilient fulfillment workflows for CRED's BBPS platform, increasing instant payment success rate from 95% to 99% through retry orchestration and fault-tolerant, multi-attempt recovery pipelines.
- Eliminated double-fulfillment in payment processing, reducing the incident rate from ~5% to 0% of total payments, by designing idempotent fulfillment mechanisms and resilient retry handling across distributed transaction flows.
- Delivered a MySQL-backed queue orchestration system handling 200-400 jobs/sec at peak load; collaborated with cross-functional teams in an Agile environment to improve reliability, retry resilience, and operational visibility for payment execution pipelines.

Koders - Backend Developer Intern · Dehradun, India · Jun 2023 - Sep 2023

- Developed backend services using Java (Micronaut) and Flask, implementing secure JWT-based authentication and scalable API workflows for client-facing applications; integrated Hasura GraphQL with batched query resolution to reduce redundant round-trips and cut API response overhead across services.

PROJECTS

AI Portfolio Platform - Java, Spring Boot, React, PostgreSQL, Kafka, OpenSearch

github.com/thesahibnanda-max/backendPortfolio · github.com/thesahibnanda-max/frontendPortfolio

- Designed and shipped a full-stack, Retrieval-Augmented Generation (RAG)-style AI platform (Java 25/Spring Boot 4 backend, React 19/TypeScript frontend) with a two-stage Orchestrator/Worker LLM pipeline, backed by PostgreSQL (jOOQ), Kafka event streaming, and OpenSearch indexing.
- Delivered production-grade reliability across 15 REST endpoints with dual-tier caching, tested via 48 Testcontainers-backed tests, and deployed through a managed, automated GitHub Actions CI/CD pipeline.

Helios - Distributed Real-Time Streaming & Analytics Platform

github.com/thesahibnanda-max/helios

- Designed a distributed event-streaming and analytics platform using Kafka, Flink, Cassandra, ClickHouse, gRPC, and Protocol Buffers, enabling high-throughput, low-latency ingestion pipelines for fraud detection and anomaly analysis, with OpenTelemetry-based observability.

Distributed Bus Booking Platform - Go, Kafka, PostgreSQL, Redis, Elasticsearch

github.com/thesahibnanda-max/redBus

- Architected a production-grade, event-driven platform with 17 Go microservices, saga orchestration, transactional outbox, and Redis-backed distributed seat locking to prevent overselling under concurrent booking requests; engineered idempotent Kafka-based workflows and a full observability stack (Prometheus/Grafana/Loki/Jaeger) with distributed tracing.

Django Instagram Clone - Python, Django, DRF, JWT

github.com/thesahibnanda-max/djangoInstagramClone

- Built and extended a full-stack Django 5 / Django REST Framework application with JWT authentication (Simple JWT), a social graph, and htmx-powered direct messaging; configured production deployment via Unicorn/WhiteNoise and cleaned up the codebase for maintainability.

fastclient - High-Performance HTTP Client Library for Go

github.com/thesahibnanda-max/fastclient

- Developed an allocation-optimized HTTP client on top of fasthttp, achieving ~1.6x lower latency and ~3x fewer allocations than net/http through pooled requests and zero-copy optimizations.

EDUCATION

University of Petroleum and Energy Studies - Bachelor of Technology (B.Tech.), Computer Science (AI & ML) · Dehradun, India · May 2025 · CGPA: 8.92/10

Candidate Master, Codeforces (top ~4% globally rated) · Active competitive programmer on LeetCode