

Ankit SINHA

Backend Engineer | Distributed Systems | Cloud & Infrastructure Native

📞 +91-628737414 ✉️ ankits0057@gmail.com 📁 Portfolio 🌐 LinkedIn 🐙 GitHub

EDUCATION

Lovely Professional University , Punjab	Aug 2026
B.C.A - Bachelor of Computer Application	CGPA: 9.86
Board of Open Schooling Sikkim (BOSSE) , Sikkim	Sep 2023
Senior Secondary (Class XII)	84%
S.J D.A.V Public School , Chaibasa	April 2020
Secondary (Class X)	95.6%

TECHNICAL SKILLS

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

Backend & APIs: Node.js, Express.js, Gin (Go), FastAPI, GraphQL, REST APIs

Infrastructure & DevOps: Docker, GitHub Actions

Cloud Platforms: AWS (S3 , EC2), Google Cloud Platform (Compute Engine)

Databases & Storage: PostgreSQL, MySQL, MongoDB, Redis

Messaging & Observability: RabbitMQ

ML/AI: Hugging Face Transformers, RoBERTa, Toxic-BERT, Text Classification, Content Moderation Systems, Flask Inference Server

Concepts: Microservices, Distributed Systems, Event-Driven Architecture, System Design

PROJECT EXPERIENCE

Konnect 🐙 | 📁 | Next.js, Express, MongoDB, Redis, RabbitMQ, Micro-Service, Kafka, Python, Docker **Sept 2025**

- Architected a production-ready real-time chat platform across 6 microservices with Next.js frontend, Socket.IO WebSocket gateway, and Traefik reverse proxy, implementing JWT RS256 dual-token auth, OTP email verification, and Google/GitHub OAuth 2.0 with CSRF protection.
- Engineered an event-driven pub/sub messaging backbone using RabbitMQ and Apache Kafka to decouple microservices, routing chat events through topic-based consumers into an AI moderation pipeline (RoBERTa + Toxic-BERT) with Redis sliding-window aggregation to suppress false-positive harassment flags.

HashVault 🐙 | 📁 | Go, Gin, PostgreSQL, Redis, RabbitMQ, AWS S3, Docker **March 2026 - In progress**

- Architected a production-grade cloud storage platform in Go using a modular monolith with clean repository/service/handler layers, JWT authentication with refresh token rotation in Redis, and role-based access controls with soft-delete audit trails across all user data.
- Engineered SHA-256 content-addressable file deduplication with atomic reference counting, eliminating redundant S3 storage across users; integrated presigned URL upload flow so file bytes transfer browser-to-S3 directly, keeping the Go server on the control plane only.
- Built resilient infrastructure with Redis graceful degradation (fail-open for rate limiting, fail-closed for auth token validation), async email/OTP delivery via RabbitMQ, PostgreSQL connection pool tuning (25 max connections), and 30-second graceful shutdown on SIGTERM; deployed with Docker Compose locally.

VOLUNTEERING & SOCIAL IMPACT

Project Intern | Srijan Mahila Vikash Manch (SMVM) · NGO **Jul 2024 · 1 month**

- Designed and facilitated gamified, activity-based educational workshops for underprivileged children across community learning centers, incorporating interactive games, songs, and creative teaching methods to strengthen foundational learning and concept retention.

- Supported capacity-building initiatives by training facilitators in participatory and learner-centered pedagogical approaches, contributing to sustainable grassroots education delivery under the SMVM child education program.

CERTIFICATIONS

Developing Back-End Apps with Node js and Express - Coursera 

Jan 2 , 2026

