

Yashaswi Kumar Mishra

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Profile Summary

Backend Developer focused on building **high-performance, scalable, and resilient distributed systems**. Skilled in designing **event-driven architectures**, crafting **real-time APIs**, and optimizing **backend infrastructures for fault tolerance and low-latency communication**. Proficient in technologies like **Node.js, Go, Rust, PostgreSQL, Redis, Kafka, Docker, GraphQL**, and **WebSockets**. Passionate about solving **complex backend challenges**, implementing **clean architecture principles**, and delivering **production-grade systems** with a strong emphasis on **system reliability, async workflows, and performance tuning**.

Skills

Programming Languages: TypeScript, Go, Rust, JavaScript, C/C++, Java

Backend Frameworks: Express.js, Hono.js, Actix, Axum, Gin, GraphQL, tRPC

Databases & ORMs: PostgreSQL, MongoDB, Redis, MySQL, SQLite, Prisma ORM, Drizzle ORM

Infrastructure & Tools: Docker, Kafka, gRPC, REST APIs, WebSockets, Git

Education

Manipal Institute of Technology

July 2023 - Present

B.Tech. in Computer Science and Engineering

CGPA: 9.63/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms

Projects

Redis Server from Scratch

- Engineered a Redis-compatible server in Rust with custom **TCP networking** and **low-level RESP** protocol parsing.
- Supported data types (String, List, Hash, Set) with **expiry logic, in-memory storage, and persistent models**.
- Designed future-proof architecture for **pub/sub channels**.
- Tech Stack:** Rust, Tokio, Custom Protocols

UptimeX - Real-Time Server Monitoring and Notification Platform

- Developed a full-stack SaaS to monitor server uptime (**HTTP, TCP, Databases**) and send instant real-time alerts via **WebSockets**.
- Integrated **GraphQL Subscriptions** for sub-second alerting, **SSL expiry tracking**, and live trend analytics.
- Enabled **self-serve public status pages** for transparent server monitoring.
- Tech Stack:** Node.js, Next.js, PostgreSQL, GraphQL, Sequelize, WebSockets, TypeScript

Ping Panda - SaaS Event Alerts on Discord

- Built a real-time SaaS platform that sends **event-driven alerts** (sales, signups, errors) directly to Discord.
- Architected an **API key management system** with **custom payload support** and ultra-low latency WebSocket delivery.
- Scaled backend using Hono.js, Prisma ORM, and **optimized transactional workflows**.
- Tech Stack:** Hono.js, PostgreSQL, Next.js, Prisma, Stripe, React Query, TypeScript

Quill - AI-Powered Contextual PDF Chat

- Created a SaaS platform to **chat contextually with PDFs using semantic vector search** and conversational AI pipelines.
- Orchestrated **vector embeddings** with Pinecone and integrated LangChain and Gemini for deep contextual awareness.
- Powered fast serverless **tRPC APIs, infinite queries, and Stripe-integrated billing workflows**.
- Tech Stack:** Next.js, tRPC, Pinecone, LangChain, Prisma ORM, TypeScript, Stripe