# Sudeep Magadum

Backend Engineer | Node.js | TypeScript | Distributed Systems
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[GitHub](#) | [LinkedIn](#)

## Professional Summary

Backend Engineer specializing in scalable, distributed systems using Node.js and TypeScript. Experienced in designing RESTful APIs, event-driven microservices, and high-concurrency backend services using PostgreSQL, Redis, Kafka, Docker, and Nginx. Strong foundation in system design, data consistency, and production-ready backend development.

## Technical Skills

**Languages**: JavaScript (ES6+), TypeScript, SQL
**Backend**: Node.js, Express, RESTful APIs, API Gateway
**Databases & Caching**: PostgreSQL, Redis, Prisma ORM, Redis Lua
**Messaging & Infra**: Apache Kafka, Docker, Docker Compose, Nginx, Linux
**Concepts**: Microservices Architecture, Distributed Systems, Event-Driven Design, Concurrency Control, Asynchronous Processing

## Projects

**Microservices E-Commerce Backend** | Node.js, TypeScript, Kafka, Redis, PostgreSQL, Docker   -[Link](#)
- Designed and implemented 4 independent microservices (User, Inventory, Payment, Email) using an event-driven architecture.
- Built an Nginx API Gateway for centralized routing, rate limiting, and JWT authentication verification.
- Implemented Kafka-based workflows to maintain payment–inventory consistency across services.
- Handled high-concurrency checkout flows (100+ concurrent requests) using atomic Redis Lua scripts.
- Developed cron-based cleanup jobs to rollback expired inventory reservations, ensuring data integrity.

**GradNet – Alumni Networking Platform** | Node.js, React, PostgreSQL, Socket.io  -[Link](#)
- Developed a full-stack alumni networking platform for students, alumni, and faculty.
- Implemented OTP-based authentication, role-based access control, and secure session handling.
- Built job boards, discussion forums, and real-time messaging using Socket.io.

Task Queue System | Node.js, Express, Redis, BullMQ
- Designed REST APIs for background job submission and status tracking.
- Implemented Redis-backed workers for asynchronous task processing and retries.

## Education

Bachelor of Engineering in Computer Science
Angadi Institute of Technology and Management, Belagavi
Dec 2022 – Present