

Manush Prajwal

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Summary

Backend Engineer with 2+ years of experience designing and scaling distributed backend systems and microservice architectures. Strong expertise in Node.js, NestJS, Kafka, Docker, and PostgreSQL, with hands-on experience building event-driven pipelines, API gateways, and fault-tolerant services. Proven track record of delivering production systems supporting 1,300+ daily users through backend optimization. Experienced in system design, asynchronous processing, and backend-heavy ML integrations.

Skills

Backend & Distributed Systems: Node.js, NestJS, REST APIs, Microservices, Kafka, API Gateway, Event-Driven Architecture, Authentication & Authorization

Databases & Infrastructure: PostgreSQL, Supabase, Docker, CI/CD

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

Frontend (Secondary): React.js, Next.js

Work Experience

Freelance Backend Developer

tourindia.com

Travel Agency Platform (TourIndia24)

May 2023 – Present

- Owned backend architecture for a production travel platform, designing REST APIs and database schemas for bookings, users, and package workflows.
- Built scalable, database-backed services handling concurrent booking traffic while ensuring data consistency.
- Optimized backend performance and request handling, contributing to a 3× traffic increase and 45% growth in completed bookings.

Projects

Cement Mind

cementmindai.com

- Architected distributed, event-driven backend services for ingesting high-frequency IoT sensor data using **Apache Kafka**.
- Implemented Kafka producers and consumer services to decouple ingestion, validation, aggregation, and processing pipelines.
- Built backend API layers integrating AI-based quality detection models with logistics and monitoring systems.
- Designed asynchronous, fault-tolerant data pipelines enabling near real-time industrial decision making.

Student Hub – Microservice-Based Academic Platform

studenthub.com

- Designed domain-driven microservices using **NestJS**, with clear service boundaries for jobs, issues, announcements, resources, and study groups.
- Built a centralized **API Gateway** handling authentication, authorization, request routing, and rate limiting.
- Implemented stateless backend services enabling horizontal scaling and fault isolation.
- Developed REST APIs and database schemas supporting 1,300+ daily active users with role-based access control.
- Improved scalability and maintainability while reducing resource discovery time by over 85%.

Network Security Monitor with Intrusion Detection

github.com/Manushprajwal7

- Built backend monitoring pipelines for real-time network traffic analysis using packet inspection.
- Implemented detection logic to identify Man-in-the-Middle attacks with high accuracy.
- Achieved 89% detection accuracy with less than 0.5% false positives in simulated environments.

Education

The Oxford College of Engineering

Sept 2023 – Present

B.E. in Computer Science and Engineering

Alvas PU College, Moodubidri

2021 – 2023

Pre-University Course (Science Stream)

Publications

- Advanced Detection for Breast Cancer Using Ring Resonator Biosensors Coupled with SVM** — IEEE ICCNP 2025. Applied ML and signal-processing techniques to design a non-invasive detection system, achieving 88% accuracy and reducing diagnosis time by 50%.