

PARITOSH VARSHNEY

Bangalore, India | varshneyparitosh7@gmail.com | +91 9027641712

Backend engineer with 3+ years of experience designing and scaling distributed systems, integrating LLMs into production, and building high-throughput backend platforms.

EXPERIENCE

Healthify

Bangalore, India

Software Engineer 2, Backend

Dec 2024 – Present

- Led backend development for the company's insurance-backed telehealth platform from MVP to full US rollout. Built core workflows in **Python** integrating **Healthie, Stedi, and Stripe** for eligibility checks, provider discovery, appointment booking, and cross-system insurance and account sync; backed by **MongoDB, MySQL, and Redis** for state management and caching.
- Designed and developed an LLM orchestration pipeline in **Python** for automated multi-day diet plan generation using parallel processing, validation gates, and self-healing retries resulting in reducing turnaround from **25 min to 3.5 min**.
- Built a centralized LLM token usage tracking and cost estimation system that logs every LLM call across all backend services with detailed token breakdowns by provider, model and feature. The system captures prompt tokens, completion tokens, reasoning tokens, cached tokens, and audio tokens, enabling per-feature cost analysis and budget monitoring across **50+ LLM-powered** features.

Metropolis Technologies

Bangalore, India

Software Engineer (Backend Developer)

July 2023 – Dec 2024

- Architected an event-driven Monitoring & Alerting service using **Node.js, MongoDB, and MQTT** to track real-time health for garage hardware which reduced incident response times from **hours to minutes**.
- Re-engineered the Reservation CRUD subsystem using **Node.js and MySQL**, scaling it to support 3,000+ garages and 2.5M+ annual bookings (100% YoY growth) while maintaining API flexibility for diverse garage configurations.
- Refactored the Payments Microservice into a provider-agnostic architecture supporting **Stripe, HPS, Square, and Chase**, enabling multi-gateway support and integration across the entire product suite.

Texas Instruments

Bangalore, India

Software Engineering Intern

July 2022 – Dec 2022

- Built 35+ hardware-interfacing APIs (**C, C++, Python**) for two generations of FMCW radars.
- Optimized radar logic to reduce non-sampling time by 30%, directly improving object detection accuracy.
- Delivered core integrations for global partners including Google, Ford, and Infineon.

SKILLS

Languages: Python, JavaScript, C, C++, Java

Frameworks & Libraries: Node.js, Express, Django, React, Celery

Databases & Storage: MySQL, MongoDB, Redis, NoSQL

Messaging & Queue: RabbitMQ, CloudAMQP

Cloud & Infrastructure: AWS, Git, Microservices, Distributed Systems, Event-Driven Architecture

AI/ML: Agents, LLM Integration, Token Observability, Orchestration Pipelines, Prompt Engineering

Domains: Backend Engineering, Payments, API Design, System Design

EDUCATION

BITS Pilani

Goa, India

B.E. (Hons.) Electronics & Instrumentation Engineering, Minor in Physics

2019 – 2023

COMMUNITY

Workshop & Operations Head, Quark 2022, BITS Goa — led a 180+ member team across workshops, external partnerships, and large-scale participant outreach.