

BHARGAVA KISHORE TSAVATAPALLI

Node.js Backend Developer

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PROFESSIONAL SUMMARY

Results-driven Node.js Backend Developer with 2+ years of professional experience. My core expertise is designing and building scalable REST APIs and microservices using Node.js and Express.js, with production deployments spanning healthcare, fintech, and service-industry domains. Proficient in TypeScript, RabbitMQ, Sequelize, AWS (Lambda, RDS, API Gateway), ReactJS, and AngularJS. Strong focus on clean architecture, SOLID principles, performance optimization, and end-to-end delivery.

TECHNICAL SKILLS

Backend	Node.js, Express.js, TypeScript, REST APIs, GraphQL, Microservices, Event-Driven Architecture, Python, JWT Auth, OAuth 2.0, Middleware, WebSockets, Async/Await, Error Handling
Frontend	ReactJS, AngularJS, HTML5, CSS3, JavaScript (ES6+)
Databases	MySQL, PostgreSQL, Sequelize ORM, Query Optimization, Database Indexing, Transactions, Connection Pooling
Messaging/Cache	RabbitMQ, Redis (Caching, Session Management, Pub/Sub)
Cloud / DevOps	AWS Lambda, AWS RDS, AWS API Gateway, AWS S3, Docker (basics), Git, GitHub, Postman, CI/CD, Linux CLI
Concepts	SOLID Principles, MVC Architecture, API Rate Limiting, Data Validation, Logging, Unit Testing, Agile/Scrum

WORK EXPERIENCE

Software Developer — Redblocks Solutions

May 2024 – Present (2+ Years)

Hyderabad, India

- Built and maintained production REST APIs with Node.js & Express.js powering 3 live client applications — REST API development is the primary focus of my backend role.
- Architected event-driven microservices using RabbitMQ, reducing inter-service coupling and improving system reliability.
- Integrated AWS Lambda, RDS, and API Gateway for serverless deployments and scalable cloud infrastructure.
- Optimized MySQL/PostgreSQL schemas with Sequelize ORM, cutting slow query response times significantly.
- Implemented JWT-based authentication, role-based access control, and secure third-party payment integrations.
- Contributed to ReactJS front-end integration across projects; built AngularJS components and pages for the admin panel on an earlier project.
- Wrote Python scripts to automate internal workflows and streamline data processing tasks.

KEY PROJECTS

Pumperpal — On-Demand Septic Tank Service Platform

- Designed and implemented a scalable RESTful API backend using Node.js and Express.js to handle end-to-end service booking — customer requests, technician dispatch, scheduling, and live job status tracking. REST API development was my primary responsibility throughout this project.
- Contributed to the ReactJS front-end by building and integrating UI components for the booking flow and job-status dashboard.
- Integrated third-party payment gateway with webhook event handling for real-time transaction confirmation, refund flows, and payment status reconciliation.
- Implemented JWT-based authentication and role-based access control (RBAC) for customer, technician, and admin roles with secure middleware validation on all protected routes.
- Applied database indexing and query optimization on MySQL tables to reduce API response times for high-frequency booking and tracking endpoints.

CPD Health Network — Healthcare Professional Development Platform

- Built a multi-tenant RESTful API platform — the core of my contribution — enabling healthcare professionals to discover, enroll in, and complete CPD-accredited courses, with role-based access for learners, instructors, and administrators.
- Contributed to the ReactJS front-end by developing reusable components for course listings, enrollment flows, and learner dashboards.
- Designed a normalized relational database schema using PostgreSQL and Sequelize ORM to efficiently manage course content, user profiles, enrollment records, and progress milestones.
- Developed automated certificate generation pipeline triggered on course completion, with progress tracking APIs providing real-time learner analytics to instructors.
- Implemented input validation, error handling middleware, and structured logging to ensure API reliability and easier debugging in production.

Exsplit — Microservices-Based Expense Sharing Platform

- Architected a distributed microservices system using Node.js with clearly defined service boundaries for user management, group expenses, settlements, and notifications — building REST APIs was my primary role throughout.
- Built the admin panel front-end using AngularJS, creating components and pages for user management, transaction oversight, and settlement monitoring — providing hands-on Angular development experience.
- Integrated RabbitMQ as an asynchronous message broker for event-driven communication between services, delivering real-time balance-update notifications across devices with low latency.
- Engineered complex multi-party settlement algorithms supporting equal, percentage-based, and custom expense splits, with transaction-safe DB writes to prevent data inconsistency under concurrent requests.
- Utilized Redis for session caching and frequently accessed group data, significantly reducing redundant database calls and improving overall system throughput.

EDUCATION

B.Tech in Computer Science — Dr. Paul Raj Engineering College

2020 – 2023

Diploma in Computer Science — BVC Institute of Technology & Science

2017 – 2020