Sri Charan BJ

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Backend Software Engineer | Node.js, TypeScript, Microservices | 3+ Years Experience

Education

National Engineering College	**August 2019 – May 2023**
B.E Computer Science Engineering	*Kovilpatti, Tamilnadu*

Technical Skills

Languages: JavaScript, Typescript, C++, Java
Frameworks and Technologies : Node JS, Nest JS, Express.js, RESTful APIs, GraphQL, BullMQ
Databases: MongoDB, MySql, Redis
Developer Tools: VS Code, Postman, Git, Github
Deployment Tools: Digital Ocean, PM2, Nginx
Other Skills: Data Structures and Algorithms, Microservices Architecture, Code Optimization

Work Experience

Vlinder Labs	**July 2023 – Present**
Software Engineer	*Bengaluru*

- Designed and implemented RESTful & GraphQL APIs in NestJS for data retrieval and manipulation, ensuring scalability and performance.
- Designed and led backend architecture for multiple projects, ensuring scalability, performance, and seamless integration with system components. Led end-to-end database architecture for 3+ projects, aligning data models with complex business requirements.
- Designed and developed payment-related microservices integrating multiple payment gateways (5+ integrations), optimizing APIs and reducing latency from 4s to 1s through DB indexing and call reduction.
- Managed load balancing using PM2 and Nginx, achieving a 40% improvement in request handling efficiency and ensuring optimal system performance.
- Implemented automated data expiration with a Cron Job scheduler, queue management using BullMQ, and real-time load handling with MQTT for efficient and scalable system performance.

	August 2022 – June 2023
Software Engineer Intern	*Bengaluru*

- Developed and integrated a secure user authentication and authorization system, ensuring controlled access to application features and data.
- Integrated MongoDB database with NodeJS applications, optimizing data storage and retrieval operations for improved efficiency, resulting in a 30% improvement in data access speed.

Projects

GEMS - Costume Sales Platform

- Developed scalable backend APIs using NestJS to enable admins to create costume themes, invite committees, and manage users, with secure payment gateway integration for seamless costume purchases.
- Implemented a queue-based token system with BullMQ and Redis, ensuring fair distribution and low-latency processing during peak traffic.
- Built real-time workflows for admins to manage queues, deliver costumes, and capture images/e-signatures for accountability.
- Optimized system performance to handle 15,000+ customers, ensuring reliable payments, reduced waiting time, and improved scalability.

EPCC - E-Police Clearance Certificate System

- Developed secure backend APIs for managing user application data and automated PDF certificate generation, enabling users to securely download and share verified digital certificates.
- Implemented a real-time application status tracking system for users and admins, enabling dynamic updates, notifying users once their application is approved by the admin.

Onsite Experience – Vlinder Labs (Trinidad and Tobago, Feb 2023 – Mar 2023)

- Provided onsite support for the Distribution Service project, ensuring seamless costume distribution across **7+** Carnival Bands.
- Collaborated with local teams to resolve live production issues, ensuring minimal downtime and smooth operations.
- Optimized distribution workflows and implemented load balancing strategies, enabling the platform to efficiently handle large-scale crowd volumes and improve customer satisfaction.