

Vishal Singh

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SUMMARY

Backend Developer with 3+ years of experience in building robust backend systems, delivering high-quality applications, optimizing performance and implementing scalable web solutions and automation to improve efficiency and satisfaction.

SKILLS

Programming	:	JavaScript, TypeScript, OOPs
Database	:	MongoDB, Redis, Elastic Search, PostgreSQL, ScyllaDB
Back-End	:	Node.js, Express.js, gRPC, AWS SDK Services, Socket, RabbitMQ, Kafka, Jest, JWT
Tools	:	Jira, Linux, Git, GitLab, ChatGPT, SonarQube

EXPERIENCE

Software Engineer (NodeJS) | Appinventiv Technologies Pvt Ltd | Noida, Uttar Pradesh Feb 2022 - Current

- Designed and developed a large monolithic code base into 10+ event-driven microservice architecture from scratch, ensuring efficient and fast data exchange and seamless integration with front-end services.
- Designed and developed RESTful APIs, RPCs and migration scripts integration ensuring seamless user experience
- Optimized database performance with data isolation, query tuning, schema design, and change streams, improving data retrieval by 38% for 1.5M+ users.
- Integrated multiple third-party and payment gateway APIs to enhance application functionality and performance.
- Integrated and implemented multiple AWS services into project to leverage the cloud capacities
- Implemented advanced security measures to ensure data integrity and protection across all services
- Delivered releases and hotfixes with minimal downtime (monolithic arch) and zero downtime (microservice arch)
- Developed comprehensive test cases reducing defects by 35% and improving code reliability and release quality
- Implemented task distribution using RabbitMQ and Kafka, cron-jobs to improve and optimized performance by 25-30%
- Initiated technical sessions, comprehensive documentation and conducted code reviews for junior developers
- Collaborated with a large cross functioning internal and client team daily for smooth development and delivery process
- Created payment request deeplinks and notifications to seamlessly redirect users to our app for payment processing.
- Implemented AWS Liveness for user KYC verification using photo and video to ensure secure and reliable identity validation.

Projects

Toki (Payment App | Super App) | Back End Development | [Live-1](#) | [Live-2](#) | [Live-3](#) | [Live-4](#) May 2022 - Current

- Backend development of 10+ **event-driven microservices from scratch** using **gRPC**, **Typescript**, **Express.js** and **Node.js** to handle API integrations
- Implemented multiple **AWS services** like **S3**, **Lambda**, **SES**, **SNS**, **API Gateway**, **Secret Manager**, **Liveness** etc
- Implemented comprehensive **Test cases** for all services using **Jest** unit test case package
- Database management utilised **MongoDB**, **PostgreSQL**, **ScyllaDB**, **Elastic Search** & **Redis** storage, scalability and performance
- Implemented task distribution using **RabbitMQ** and **Kafka** improving background job processing
- Implemented persistent connections with **WebSocket** (socket.io) to ensure real-time communication between users

Exchange (Pre-production) | Back End Development Sep 2024 - Nov 2024

- Backend implementation from scratch using **Express.js** and **Node.js** to handle API integrations and Database operations
- Database management utilised **MongoDB**, **PostgreSQL** and **Redis** for data storage, enhancing scalability and performance

LiveWell (Better Health Now) | Back End Development Apr 2022 - May 2022

- Backend implementation using **Typescript**, **Express.js** and **Node.js** to handle API integrations
- Database management utilised **MongoDB** and **Redis** as the database storage, enhancing scalability and performance
- Implemented user authentication with **JWT**, **OTP** (Twilio) based onboarding for secure access and personalized experiences

Education

MCA	KIET Group of Institutions 83.6%	2020 - 2022
B.Sc	MGKVP, Varanasi 59.05%	2016 - 2020

Achievements and Certifications

- MongoDB University Certified | [SI Associate Certification](#)
- 'Budding Star Award' for outstanding performance, responsibility, and quick grasp of project requirements.
- 'Squad Award' for exceptional team performance, client satisfaction, and maximizing organizational profitability.
- Ranked 1st in Technical Training program at Appinventiv Technologies Pvt Ltd.