Prince Kumar

Software Developer

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Skilled Node.js Developer focused on building efficient and scalable backend systems, with experience in microservices architecture. Proficient in JavaScript and TypeScript, with a background in deploying containerised applications using Docker. Experienced in database management and known for troubleshooting complex backend issues. Consistently delivers high-quality, well-documented code that enhances system performance and reliability.

SKILLS SUMMARY

- **Backend**:   Node.js, Microservices, Express, Go(Golang), Gin, Socket.io
- **Database**:   MongoDB, PostgreSQL, MySQL
- **ORMs**:   Mongoose, Sequelize, Prisma
- **Languages**:   JavaScript, TypeScript, Go, GraphQL
- **Tools**:   Nginx, Git, Docker, Redis, Kafka, RabbitMQ

EXPERIENCE

- **Tech Immortals**   Remote
  Software Developer   *Sept 2024 - Present*
  - **Backend Optimization for Games**: Developed and optimised backend systems for high-demand and optimised backend systems for high-demand casino games (Roulette, Rummy, Andar Bahar, Lottery, Raashi) achieving a **12%** reduction in response time through code optimisation and efficient use of caching with Redis.
  - **Scalable Microservices Architecture**: Built and maintained scalable microservices architecture using Node.js, Express, PostgreSQL, and TypeScript, ensuring low-latency performance and seamless real-time interaction through WebSockets, handling up to **10k** concurrent users
  - **Real-Time Performance Enhancement with Redis and WebSockets**: Integrated Redis caching and optimized WebSocket communication for reduced load on database queries, enhancing user experience and achieving a significant increase in response speed and stability during peak hours.
  - **High-Throughput Transaction Handling**: Collaborated on continuous code and performance improvements, leveraging load-testing tools to ensure the backend could sustain up to **1000** transactions per second (TPS), achieving industry standards for game platforms.

- **Wits Innovation Lab**   Mohali, Punjab
  Software Developer (Full-time)   *Sep 2023 - Sept 2024*
  - **Innovative Magento and Shopify Adapter Developer:**: Engineered a cutting-edge Magento and Shopify adapter in **NodeJs, Express, PostgreSQL, Prisma, and AJV**, officially recognized as an **ONDC product**. Facilitated seamless integration between various sellers and the ONDC network, showcasing expertise in API connectivity and data synchronization.
  - **Backend Technology Mastery:**: Demonstrated proficiency in backend technologies by leveraging Node.js and Express for efficient and scalable server-side development.
  - **Product Development and Integration Leadership:**: Played a pivotal role in the development lifecycle, steering the adapter project from conception to implementation and contributing to the **ONDC** network's expansion.

- **Promatics Technologies**   Ludhiana, Punjab
  NodeJs Developer   *Oct 2022 - Sept 2023*
  - **Proficient NodeJs Developer**: Developed and maintained robust web applications using Node.js, Express, and databases, while ensuring version control with Git for efficient collaboration.
  - **TypeScript Advocate for Code Excellence**: Spearheaded TypeScript adoption, improving codebase maintainability and scalability through effective code refactoring and adherence to modern JavaScript standards.
  - **Collaborative Code Review Champion:**: Led comprehensive code reviews, fostering a culture of excellence by providing constructive feedback and ensuring adherence to the latest coding standards and best practices.

PROJECTS

- **Quick Game**: Developed Quick Games platform as a Tech Lead, featuring integrated tools for data management and game development. Built on a robust microservices architecture, this platform supports five distinct games, each as an independent service, ensuring optimal scalability, fault tolerance, and ease of maintenance. Technologies like sockets, Redis, and Kafka enable real-time interactions, creating a reliable, seamless gaming experience across all services.

- **Shopify Adapter**: Built a Shopify adapter using Node.js, Express, and PostgreSQL. Acting as middleware, it bridges Shopify with the ONDC protocol layer, enabling seamless communication with ONDC and synchronising seller inventory across multiple buyer apps. Made it go live for the client Hoop.

- **Get Real**: Created an artist platform for promoting local artists. Developed a system that enables users to invite artists within a specified radius, coupled with a notification mechanism for GPS-based alerts when the user is not within their designated base location. Integrated third-party APIs such as Twilio for SMS and Firebase for notifications. Utilised Node.js, Express.js, and MongoDB for backend development.

EDUCATION

- **Lovely Professional University**   Punjab, India
  Bachelor of Technology - Computer Science Engineering   *July 2019 - July 2023*