Prabhakar Kumar

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Skills

Languages: C/C++, Java, JavaScript, SQL.
Frameworks: Spring Boot, JPA/Hibernate, React.js, Node.js, Spring MVC, Microservices.
Tools and technologies: Docker, Redis, Kafka, AWS(S3, Lambda, SQS), MySQL, MongoDB, Git, Postman.
Area of interest: Data Structures, Algorithms, System Design

Work Experience

PwC   *August 2023 – Present*
Associate (Software Developer)   *Bengaluru, India*

- Developed and maintained scalable **Java Spring Boot microservices** and **RESTful APIs** for core banking platforms, enabling secure and efficient processing of high-volume transactions for millions of customers.

- Designed and implemented event-driven architectures using **Apache Kafka** to ensure reliable, asynchronous communication between distributed services, reducing transaction latency and improving system resilience.

- Built responsive web interfaces using **React.js** for financial reporting dashboards, enabling clients to view portfolio summaries, transaction histories, and generate custom reports with real-time data visualization, resulting in 40% faster report generation.

- Utilized **AWS services Lambda** for automated report generation, and **SQS** for message queuing in banking workflows, contributing to 30% reduction in infrastructure costs resulting in improved scalability and business continuity.

- Designed and optimized **MySQL database** schemas for storing customer information, transaction records, and account balances, writing efficient SQL queries and implementing proper indexing strategies that improved query performance by 50%.

- Developed comprehensive API, testing using Postman, and maintained code versioning with Git while following agile development practices and code review processes.

- Collaborated with cross-functional teams to deliver new features, resolve production issues, and ensure alignment with business goals.

Project Work

Distributed E-Commerce System   🐙 GitHub

- Developed a scalable **microservices-based e-commerce platform** using Java Spring Boot, featuring Product, Order, and Inventory services, enabling seamless synchronous REST and asynchronous **Kafka** communication.
- Implemented a secure and high-performance **API Gateway** with Spring Cloud Gateway MVC, integrating Keycloak for robust authentication and authorization across all microservices.
- Enhanced system resilience using **Resilience4j for circuit breaking** and integrated OpenTelemetry for distributed tracing and observability.
- Documented REST APIs with **OpenAPI** and utilized **Wiremock** for effective inter-service testing .

FriendOChats: Interactive Chat App   🐙 GitHub   🌐 Live Demo

- Built a scalable real-time chat app using **MERN**, Zustand, and **Socket.io** with features like live messaging and user status.
- Designed a responsive UI using Tailwind CSS and Daisy UI with real-time notifications for seamless interaction.
- Secured the app with **JWT-based** auth and improved backend reliability with robust error handling.

Education

B.Tech, Computer Science And Engineering   *CGPA: 8.93/10*
Haldia Institute of Technology, West Bengal   **Aug 2019 – Jun 2023**

Certifications & Achievements

- **AWS Certified Cloud Practitioner** – Amazon Web Services [Link]

- Solved **500+ DSA problems** on platforms like LeetCode, GFG, Codeforces

- **Above and Beyond Award – PwC India** for exceptional contributions beyond responsibilities