

Piyush Kumar

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Passionate Developer skilled in designing scalable microservices, RESTful APIs, and robust databases. Proficient in Spring Boot, Kafka, and PostgreSQL to optimize performance and solve real-world challenges. Experienced in developing responsive and intuitive user interfaces using React.js, with a strong focus on user experience and front-end performance. Dedicated to continuous learning and the delivery of high-performance, end-to-end solutions across both backend and frontend.

EDUCATION

Shri Shankaracharya Group of Institutions

B.Tech in Computer Science, Secured an aggregate of 8.74 CGPA (First Div. With Hons.)

Bhilai, India

July 2017 – June 2021

Kendriya Vidyalaya BMY Bhilai

AISSCE(12th) CBSE Board with 80 Percent (First Div. With Hons.)

Bhilai, India

July 2016 – June 2017

Kendriya Vidyalaya BMY Bhilai

AISSE(10th) CBSE Board with 10 CGPA (First Div. With Hons.)

Bhilai, India

July 2014 – June 2015

EXPERIENCE

Sr. Software Engineer

Wipro Limited

Apr 2024 – Present

Hyderabad, India

- Developed backend services for diverse products, boosting **performance by 30%**, and ensuring **seamless integration** with front-end systems and third-party APIs.
- Designed and implemented scalable microservices using Spring Boot, boosting **process automation efficiency by 35%** and optimizing RESTful APIs to enhance **data exchange speed by 25%**.
- Implemented **message-driven architectures using Kafka**, resulting in **40% improvement in system scalability** and **reliable asynchronous communication** between microservices.
- Built innovative proof-of-concept applications addressing complex real-world challenges. Leveraged Spring Boot for **efficient backend development**, ensuring **system reliability** and **seamless integration with modern technologies**.

Software Engineer

Wipro Limited

Nov 2021 – Mar 2024

Hyderabad, India

- Built and maintained scalable **microservices** using **Spring Boot**, adhering to **clean code principles** and **RESTful design patterns**.
- Designed and optimized **database schemas**, and wrote efficient **SQL queries** for data handling using **PostgreSQL**.
- Integrated **Apache Kafka** for **asynchronous messaging** between microservices, improving system scalability and reliability.
- Implemented **exception handling**, **input validation**, and **logging mechanisms** to ensure application stability and maintainability.
- Used **Spring Security** and **JWT tokens** to implement secure authentication and authorization mechanisms.

PROJECTS

Invoice Service | Spring Boot, Kafka, Microservices, JPA, JSON, PostgreSQL

March 2023 – Present

- Developed a robust invoice generation process handling **15M+ monthly invoices** using a microservices architecture. Achieved **40% reduction in backend load** by leveraging **OpenHTMLtoPDF** and **Thymeleaf** for dynamic PDF generation. Ensured **reliable inter-service communication** with **Kafka** and optimized data management using **PostgreSQL** and **JSON**, improving data processing speed by **30%**.

Tech-Refresh | Spring Boot, Kafka, Microservices, JSON, RESTful APIs, PostgreSQL

Feb 2022 – March 2023

- Developed a product using **microservices architecture**, **RESTful APIs**, **Kafka**, **JSON**, and **PostgreSQL**, streamlining letters team operations and reducing manual effort by **50%**. Delivered an intuitive interface for dynamic letter and template generation, enhancing **process efficiency by 40%** with a scalable, reliable backend infrastructure.

SKILLS

- * **Languages:** Java, C, C++, HTML5, CSS3, Javascript, SQL
- * **Back-end Frameworks/Libraries:** Spring Boot, Hibernate, Microservices, React JS
- * **Web Technologies:** RESTful APIs, JSON, BootStrap
- * **Databases:** DB2, MySQL, PostgreSQL
- * **Tools & Technologies:** Maven, Jenkins, JIRA, Swagger, Eclipse, VS Code, STS
- * **Messaging Systems:** Kafka
- * **Version Control:** Git, GitHub
- * **Testing/Debugging:** Postman, JUnit
- * **Familiar Technologies:** AWS, Machine Learning, Artificial Intelligence, Generative AI

CERTIFICATIONS

- * AWS Fundamentals & Cloud Practitioner Essentials
- * Wipro Spring-Boot, Microservices L1 & Microservices L2
- * AWS Fundamentals of Machine Learning & Artificial Intelligence

ACHIEVEMENTS

- * **Rashtrapati Award**, Bharat Scouts and Guides
- * **Winner of Samvid Hackathon 2.0**, SSGIBhilai
- * Participant of 43rd NCERT National Science Exhibition Held at the International Exhibition Center Bangalore
- * Organizer of Samvid Hackathon 3.0, collaborating with Devfolio