PANKAJ KUMAR

Backend developer

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Backend Developer with a strong foundation in Spring Boot, PostgreSQL, and AWS. Experienced in designing efficient APIs, optimizing data pipelines, and solving backend performance issues.

TECHNICAL SKILLS

- **Programming Languages:** C++, Java
- **Frameworks & Databases:** Spring Boot, PostgreSQL, MySQL
- **Tools & Platforms:** AWS (EC2, S3, RDS), Docker, Linux
- **Core Skills:** Data Structures & Algorithms, System Design, Machine Learning

PROFESSIONAL EXPERIENCE

Backend Developer, Vidyayatan Technologies (Internship)   **September 2024 – November 2024 (Work from home)**
- ✪ I worked on the Innowell Mapper project, building 17 RESTful APIs from scratch using Spring Boot and handling complex GeoJSON data. I utilized various features of Spring Boot to design scalable solutions, raised 40 pull requests.
- ✪ In the Home Review project, I developed 4 RESTful APIs and designed the database schema based on Figma wireframes, ensuring efficient data flow.
- ✪ Both projects provided me with hands-on experience in end-to-end development and large system architecture. I transformed client requirements into actionable features, ensuring successful implementation through effective collaboration and execution.

Full Time Competitive Programming (Self)   **August 2023 – August 2024 (Work from home)**
- ✪ Fueled by a passion for problem-solving, I've spent over 1 years actively participating in competitive programming contests on platforms like LeetCode, Atcoder, Codeforces, Codechef. This experience has sharpened my skills in code optimization and tackling challenges across various topics.

Software Engineer, CDK Global Inc (Internship)   **February 2023 – July 2023 (Pune, India)**
- ✪ implemented and enhanced core functionalities for "Enterprise Core Service" and "External Attributes Services".
- ✪ Ensured quality and stability through bug fixing, JUnit / Mockito unit testing, and API testing.
- ✪ Streamlined development with IntelliJ, Data grip, Postman, JMeter, New Relic and agile methodologies (Jira, Bamboo, Bitbucket) for efficient development and deployment.

WORKED ON PROJECTS

➔ **Mirkwood Logistics Real Time Automation System with Spring Boot**   **(27/01/2025 To 09/02/2025)**
   Developed and optimized RESTful APIs using Spring Boot for parcel tracking and staff operations,integrated with PostgreSQL for data management and secured with Spring Security,and deployed on AWS EC2 instances using Docker for scalable and efficient management.

➔ **User Management with Bloom Filter**   **(09/11/2024 To 11/09/2024)**
   Developed a Spring Boot application with a MySQL database to efficiently store and validate usernames. Implemented a Bloom Filter for fast existence checks, enabling quick validation even with millions of users. implemented a range of mini projects incorporating OAuth2, JWT, Kafka, Batch Processing, Redis, Email Services and more.

➔ **Modern Contact Management With Spring Boot**   **(02/08/2024 To 20/08/2024)**
   Developed a Spring Boot application for contact management, enabling users to store contacts on their accounts with manual account creation, Cloudinary image storage, and OAuth2 authentication (GitHub/Google). Implemented secure database storage for organized data management.

CERTIFICATIONS

- Coders Combat by Geeksforgeeks   (April,2022)
- Competitive Programming by Cipher Schools   (March,2022)

ACADEMICS

- Lovely Professional University (B. Tech CSE Hons.), Jalandhar, India   (Aug 2019 – Aug 2023)