PANKAJ KUMAR
Software Developer

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Software Developer with a strong foundation in backend technologies such as Spring Boot, PostgreSQL, and AWS. Experienced in designing scalable APIs, optimizing data pipelines, and solving performance challenges. Passionate about creating robust, high-quality software solutions from start to finish.

TECHNICAL SKILLS

- **Programming Languages:** C++, Java
- **Frameworks & Databases:** Spring Boot, PostgreSQL, MySQL, MongoDB
- **Cloud & DevOps:** AWS (EC2, S3, RDS), Docker, Linux, CI/CD (GitHub Actions)
- **Core Skills:** Data Structures & Algorithms, System Design, Machine Learning

PROFESSIONAL EXPERIENCE

Backend Developer, Vidyayatan Technologies (Internship)   **Sep 2024 – Nov 2024 (Remote - Bhopal, India)**
- ✪ 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.

Independent Software Development and Competitive Programming   **Aug 2023 – Aug 2024 (Remote)**
- ✪ Solved over 1000 problems on LeetCode and AtCoder, strengthening algorithmic thinking and code optimization through regular contests. Applied these skills to backend development using Spring Boot with JWT, Redis, and CI/CD for real-world project implementation.

Software Engineer, CDK Global Inc (Internship)   **Feb 2023 – Jul 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, DataGrip, 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 20/11/2024)**
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   **CGPA:** 7.16 / 10
  (Aug 2019 – Aug 2023)