PANKAJ KUMAR

Backend developer

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I am an adept problem solver and lifelong learner with a continuous curiosity for discovering new concepts. I embrace challenges and problems that ignite creativity and inspire innovative solutions.

TECHNICAL SKILLS

Programming Languages: C++, Java.

Frameworks and Databases: Spring boot, PostgreSQL.

Computational Skills: Data Structure and Algorithms, Machine Learning, Linux, AWS (EC2, S3, RDS).

PROFESSIONAL EXPERIENCE

Backend Developer, Vidyayatan Technologies (Internship)   **September 2024 – November 2024 (Work from home)**
- ❖ I worked on the Innowell Mapper project, building 17 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 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 Atcoder, LeetCode, 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

➔ **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.

➔ **World Top Destination Management System**   **(03/08/2022 To 15/11/2022)**
We can easily able to find world top ten tourist places by their respective countries. For Development Swift UIKit was used in which the properties such as Labels, Image View, Slider, Switch, segmented Control, Navigation Controller, Alert View, etc.

➔ **Standard Algorithms Quick Revision Using System Design**   **(01/01/2022 To 10/05/2022)**
This project is based on low level system design and developed using C++. Anyone can easily revise all the standard algorithms that are asked in a technical interview.

➔ **Flower recognition Using Machine and Deep Learning**   **(01/01/2022 To 10/05/2022)**
This model is based on CNN and model is able to recognise flowers with 87.99 accuracy. Technology used like TensorFlow, Keras, Numpy, Pickle, and Pwin32 etc.

➔ **Character Recognitions Using CNN**   **(09/10/2021 To 15/12/2021)**
The main aim of this project is design expert system for Handwritten Character (Digit) Recognition using Convolutional Neural Network. Technology used like TensorFlow, Keras, Numpy, Pandas, Seaborn and Matplotlib etc.

CERTIFICATIONS

- Coders Combat by Geeksforgeeks   (April,2022)
- Competitive Programming by Cipher Schools   (March,2022)
- Codechef SnackDown Round 1A (SNACK1A21)   (December,2021)
- Campus Code by Codechef   (September,2021)
- Cyber Security and Ethical Hacking by Board Infinity   (July,2021)

COMPETITVE CODING PLATFORMS

S. No	Platform	Contests Participated	Highest Rank	Profile Links
1.)	Atcoder	80	Atcoder Beginner Contests 363: 2352	AT
2.)	LeetCode	83	Weekly Contest 350: 4750	LT
3.)	Codeforces	90	Codeforces Round 843 Div2: 7183 Codeforces Round 900 Div3: 7279 Codeforces Round 871 Div4: 6057	CF
4.)	Codechef	47	Starters 123: 3337	CC
5.)	Hackerrank	NA	NA (Practice)	HR

ACADEMICS

- Lovely Professional University (B. Tech CSE Hons.), Jalandhar, India   (CGPA: 7.16)   (2019 - 2023)
- GD Goenka International School (PCM, CS, English) Surat, India   (Percentage: 68.60)   (2017 – 2019)
- Swargiya Ramvilash Singh Shikshan Sanstha Sikandharpur, India   (CGPA: 10.00)   (2015 – 2017)