Abhishek Kumar

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Objective

Motivated computer science student with a strong foundation in Java and Data Structures & Algorithms (DSA) and experience in front-end development. Seeking a web development role to enhance my skills in Java, DSA, HTML, CSS, JavaScript, and React by working on real-world projects and contributing to innovative solutions while gaining valuable industry experience.

Core Competencies

- **Programming Languages:** Proficient in Java; strong understanding of Data Structures & Algorithms (DSA).
- **Web Development:** Experience in front-end technologies including HTML, CSS, and JavaScript; knowledge of React for building user interfaces.
- **Problem Solving:** Strong analytical and problem-solving skills; adept at implementing efficient algorithms and data structures to optimize code performance.
- **Collaboration and Teamwork:** Proven ability to work effectively in team environments, contributing to group projects and collaborating on innovative solutions.
- **Adaptability and Continuous Learning:** Eagerness to learn new technologies and adapt to changing industry trends, demonstrating commitment to personal and professional growth.

Key Projects

Project 1: University Management System
Technologies Used: Java, JavaFX, MySQL

- Developed a comprehensive University Management System in Java, utilizing JavaFX for the front-end and MySQL for database management.
- Implemented features for managing students, faculty, courses, and exam results, allowing easy creation, updating, and deletion of records.
- Designed an intuitive graphical user interface (GUI) using JavaFX, providing an organized view for administrators and users.
- Incorporated role-based authentication for students, faculty, and administrators, ensuring appropriate access control.

- Used Java's JDBC to establish a secure connection with the MySQL database, managing data efficiently.
- Optimized performance using advanced Data Structures and Algorithms (DSA) for faster data retrieval and updates.
- Integrated error handling and validation checks to ensure data consistency and reliability.

Project 2: Task Manager Application
Technologies Used: HTML, CSS, JavaScript, React

- Developed a Task Manager app where users can create, edit, delete, and mark tasks as complete.
- Utilized React hooks (useState, useEffect) to manage the state of tasks dynamically.
- Implemented a filtering system to categorize tasks as completed or pending using JavaScript.
- Designed a clean and simple user interface using CSS to provide an intuitive user experience.
- Integrated local storage to save user tasks, allowing persistence across browser sessions.

Project 3: Scalable AWS Cloud Infrastructure with VPC, Monitoring, and CloudFront
Technologies Used: AWS (VPC, EC2, RDS, S3, IAM, NAT Gateway, IGW, CloudFront, Auto Scaling Groups, ALB, EFS), CloudWatch, CloudTrail

- Designed and deployed a comprehensive AWS cloud infrastructure focusing on scalability, security, and high availability.
- Configured Virtual Private Cloud (VPC) with public and private subnets, CloudWatch for monitoring, and CloudTrail for logging.
- Integrated CloudFront for content delivery and caching, ensuring fast and reliable content distribution.
- Deployed EC2 instances in public subnets, utilizing Application Load Balancer (ALB) and Auto Scaling for traffic management and scaling.
- Implemented private networks using RDS and secure access via VPN, with IAM policies for access control.
- This setup ensured scalable, high-availability infrastructure with proper resource monitoring and access control.

Certifications

- AWS Cloud Computing Certification – Ikigai School of AI
- Data Structures and Algorithms with Java – Apna College
- HTML, CSS, JavaScript, and React

Education

B.Tech in Computer Science
Babu Banarasi Das University, Lucknow, Uttar Pradesh
(Expected Completion: 2025)