TARUN BATHLA

Software Engineer

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EXPERIENCE

Software Engineer Trainee

Volkswagen Group Technology Solutions India

📅 November 2023 – Ongoing   📍 Gurgaon, India

- Developed and launched an internal expense tracking feature for 8D reports, including unit and integration testing, improving operational efficiency.
- Created a dynamic filter search bar using Spring Boot Specification to enable efficient, customizable querying of data, allowing users to search based on multiple criteria with ease.
- Optimized user experience by leveraging the Executors framework to implement a thread pool, enabling faster and more accurate search results and reducing response time by 30%.
- Crafted a comprehensive product tour feature using the Angular Shepherd library to guide users through the application, enhancing user onboarding and improving overall user experience.
- Implemented a read-only role functionality, allowing users to view plant issues without granting permissions to modify them.
- Debugged and resolved numerous critical issues within the team, improving system stability and application performance.

Software Development Engineer Intern

Amazon

📅 Jan 2023 – June 2023   📍 Bangalore, India

- Developed RESTful web APIs for onboarding dimension tables and notebook workflows for Amazon's second largest data lake.
- Resolved latency issues in a major service, preventing timeouts and ensuring smooth workflows.
- Migrated workflows from AWS EMR 5 to EMR 6, enhancing performance and efficiency.
- Created dashboards to monitor deployments, providing real-time success and failure metrics.
- Demonstrated expertise in writing clean code, participating in code reviews, and writing unit and integration tests for all deployments.
- Utilized Spring Boot, Java, React, AWS, SQL, and relational databases to achieve project goals.

PROJECTS

Spare Parts Inventory Forecasting GitHub
- Designed and built a Spare Parts Forecasting System in Python, leveraging the SARIMAX model for accurate demand prediction.
- Utilized time series forecasting techniques to analyze historical data and predict future requirements, enhancing inventory management efficiency.
- Improved decision-making by reducing overstocking and ensuring optimal availability of spare parts.
- Demonstrated expertise in data preprocessing, model tuning, and evaluation to achieve reliable forecasting outcomes.

EDUCATION

B.Tech in Computer Science

Chandigarh Engineering College

📅 2019 – 2023   📍 Mohali, Punjab

CGPA - 8.2/10
Subjects: OOPS, DS, Algo, DBMS, OS, CN

12th Grade (Non-Medical)

Dr. MKK Arya Model School

📅 Year   📍 Panipat, Haryana

Percentage: 92.4%
Subjects: Physics, Chemistry, Mathematics

MOST PROUD OF

🏆 **Debutant Award**
Received the Debutant Award from Volkswagen Group Technology solutions for Quarter 2, 2024

🏆 **300+ Coding Problems Solved**
Solved more than 300 problems on LeetCode and CodeStudio

🏆 **Participated in SIH**
Participated in Smart India Hackathon 2022

🏆 **24th Rank in Code Kaze**
Secured 24th place in a college-level coding competition, demonstrating strong problem-solving and programming skills.

🏆 **Top 5 in iMobilothon 4.0**
Achieved a Top 5 position in iMobilothon 4.0 at Volkswagen Group, showcasing innovation and teamwork.

SKILLS & STRENGTHS

Spring | Spring Boot | JPA/Hibernate
Spring Security | Angular | React

Core Java | JavaScript | TypeScript
DSA | SQL | PostgreSQL | CI/CD
Docker

Test Driven Development | SOLID Principles
Jira | Confluence