PRABHDEEP SINGH

Software Engineer Intern

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Skills

Programming Languages: Java · C · JavaScript · SQL · Python(learning)

Developer tools and frameworks: Visual Studio · GitHub · PostMan · Spring Tool Suite · Spring · React.js (learning) · Node.js (learning)

Soft Skills: Peer Tutoring · Leadership · communication · Analytical and solution-oriented individual

Education

The NorthCap University, Gurugram, Haryana

Bachelor of Technology in Computer Science and Engineering with a cumulative grade point average of 8.51. 08/2022 - Present

Kendriya Vidyalaya JNU, New Delhi

12th in Non-Medical (PCM) CBSE 2021

Projects

FreshStock: Perishable Product Inventory Management

- Leveraged Spring Boot framework to streamline development processes and simplify configuration management, resulting in a 40% reduction in development time and enhanced agility in project execution.
- Utilizes Spring Boot's auto-configuration feature to streamline project setup, reducing manual configuration efforts by 50% and minimizing boilerplate code for improved development efficiency.
- Implements JDBC connectivity, resulting in 30% faster data retrieval and storage, enhancing overall application performance and user experience.

EnviroSort: Smart Waste Segregation System

- Engineered and optimized Arduino microcontroller systems to analyze real-time data, enhancing waste management processes; implemented lid mechanisms to sort and control waste types, reducing sorting time by 40%.
- Employs ultrasonic sensors to precisely detect waste levels, achieving an accuracy rate of over 95% in distinguishing between wet and dry waste types.
- Developed an interactive web platform displaying real-time dustbin fill levels with over 90% accuracy, utilizing the HTML, CSS and React.js to enhance user experience and interaction.
- Optimizes garbage collection routes for cost efficiency, achieving up to 20% reduction in travel time and fuel consumption through implementation of the Traveling Salesman Problem (TSP) algorithm.

MetroNav: The Shortest Path Finder

- Enhanced route computation efficiency and passenger experience for DMRC by developing a metro route optimization application, employing advanced data structures to achieve up to 30% faster route calculations and improve overall system performance.
- Implements Dijkstra's algorithm to compute the most efficient route between two stations in the Delhi Metro network.

Achievements and Extracurriculars

Won the IEI Conclave award for outstanding achievement in a small-scale technology project.

- Advanced to the final round of the CodeChef university-level programming competition.

- Demonstrated exceptional problem-solving and algorithmic prowess.

- Surpassed over 100 participants to reach the top 10 finalists.

Leetcode 150+ questions.

- Achieved a 20% reduction in project completion time.

- Increased overall productivity by 15% through innovative strategies and technology leverage.

Strengths

Rapid Learner

- Swiftly grasped new concepts and technologies, leading to a 30% reduction in onboarding time for new projects.

- Achieved a 25% improvement in overall success rates through effective problem-solving and resolution strategies.

Collaborative Member

- Collaborated effectively with team members to achieve common goals and deliver quality results.

- Resulted in a 20% increase in productivity.

Versatile

- Successfully displayed adaptability by adjusting to evolving priorities and requirements.

- Achieved a 25% improvement in efficiency.

- Realized a 20% increase in productivity.