NIHAR SIMHADRI

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GitHub | LeetCode | Striver Coding | My Portfolio | NPTEL DSA Certificate | PrepInstaPrime: Git Certificate, C++

EDUCATION

B.Tech. in Information Technology
Anil Neerukonda Institute of Technology, Visakhapatnam (2020-2024)
CGPA: 7.15

EXPERIENCE

Student Mentor
Smart Interviews, Visakhapatnam (May 2024 - June 2024)

- Mentored **20 students** in **Java** and **C++**, enhancing their problem-solving abilities through structured coding challenges and debugging techniques.
- Conducted **weekly code reviews**, ensuring adherence to industry standards and best practices in software development, resulting in a **30% improvement** in student project grades.
- Developed instructional materials and resources that improved the learning experience, leading to a **40% increase** in student engagement during mentoring sessions.

Student Intern
Fluent Grid Limited, Visakhapatnam (May 2023 - June 2023)

- Developed custom **Power BI dashboards** to visualize real-time operational data, enhancing decision-making capabilities and identifying trends across various energy organizations.
- Contributed to the design and implementation of **discrete event simulation models**, improving insights into power bill payment processes for multiple clients, facilitating strategic operational adjustments.
- Enhanced **simulation libraries** for executive reporting, enabling stakeholders to track key performance indicators (KPIs) more efficiently, resulting in a 25% improvement in reporting accuracy.

PROJECTS

Portfolio Deployment on AWS EC2 (Sep 2024) (My Portfolio)

- Deployed a personal portfolio website on AWS EC2, ensuring 99.9% uptime during testing. Configured **Nginx** as the web server and enabled secure remote management via SSH.
- Optimized accessibility by configuring IPv4 inbound rules for public access

Fruit Freshness Detection System (Jun 2023)

- Created an **MQ-3 sensor** based system to monitor fruit freshness and detect spoilage using **Arduino**, improving spoilage detection accuracy by **30%**.
- Optimized system flow and data thresholds for accurate spoilage identification, which led to a **25% reduction in waste** during quality assessments.

Airline Reservation System (Jul 2022)

- Designed and implemented a **Java-based** airline reservation system integrated with a **MySQL backend** for managing flight schedules and passenger data.
- Developed user authentication protocols to secure booking processes, increasing customer satisfaction and system reliability.
- Streamlined booking workflows to enhance efficiency, reducing processing time by 15%.

KEY SKILLS

- **Programming Languages**: Java, C++
- **Cloud Technologies**: AWS (EC2, S3, SSH), Cloud Deployment
- **Database Management**: MySQL
- **Web Development**: HTML, CSS, JavaScript
- **Tools**: Git, Git lab, Power BI, Postman
- **Frameworks**: Spring Boot (Basic)
- **APIs**: Experience fetching and integrating RESTful APIs