VijayLaxmi Verma

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Summary

Software Engineer with 2.5+ years of experience in C++ full-stack systems and solved more than 450 questions in LeetCode, specializing in scalable architecture and algorithmic optimization. Passionate about building performant platforms and exploring emerging technologies like Rust.

Areas of Expertise

C++ - Data Structures and Algorithms - Java - React.js - Jenkins - MySQL - Object Oriented Design - Design Patterns - Docker - AWS - TypeScript - RDBMS - Cloud Architecture - SQL/No-SQL - CI/CD - Python - Apache Kafka - Kubernetes - MongoDB - Rust-SOLID - Performance Optimisation

Experience

- **Software Engineer (SE)** *July 2023 - Current*
  John Deere Pune, India
  - Engineered **C++** algorithms for autonomous field operations, handling real-time decision-making to ensure fault-tolerant performance, resulting in a 25% improvement in operational reliability
  - Led development of a Web App using React.js, Java, and microservices, saving **$2.5M** annually in licensing. Mentored junior developers and managed a cross-functional team to deliver scalable and production-ready architecture.
  - Optimized critical features for improved user experience, **reducing application latency by 20%** and enabling **seamless API integration**.
  - Applied **SOLID principles and design patterns** to enhance code readability and maintainability. This led to improved team efficiency and accelerated development timelines.
  - Conceived and developed a **patented innovation** that enhanced product efficiency. Successfully transformed the idea into a tangible solution with measurable impact.
- **SDE Intern** *May 2022 - july 2022*
  SSM Infotech Surat, India
  - Developed a **React Native mobile application** for both **Android and iOS** platforms to manage employee attendance.
  - Implemented **location-based** punch-in functionality using geolocation services to restrict clock-in within predefined areas. Built a system to track and calculate working hours based on punch-in and punch-out timestamps.
  - Built an interactive and responsive user interface using **React js**, **CSS**, and **JavaScript** to enhance user engagement and overall functionality.
  - Designed and optimised **Advanced SQL queries** to support complex business logic, including multi-table joins, nested subqueries, window functions, and aggregate operations for real-time employee attendance and working hours analysis.
  - Integrated key features such as secure user authentication, employee activity tracking, and a persistent, delivering a seamless and efficient user experience.

Projects

- **AI-assisted code refactoring platform** *Nov 2023- Feb 2024*
  Python,RectJs,GitHub Integration
  - Designed and developed a web-based tool that automatically improves code quality, readability, and maintainability while preserving functionality.
  - Implemented advanced AI models and best practices **(SOLID, DRY, Clean Code, Design Pattern, etc.)** to detect code smells, eliminate redundancies, and enforce coding standards across multiple languages.
  - Enhanced developer productivity by **30%** through automated refactoring, reducing technical debt, and accelerating release cycles.
- **Stock Market Prediction** *July 2022 - April 2023*
  Python, ML
  - Built a stock market prediction platform using **CNNs** in Python to forecast short-term price trends.
  - Implemented data pipelines with chart-based inputs and trained models using TensorFlow and Keras.
  - Streamlit dashboard was deployed for real-time predictions and interactive visualizations.

Education

- **Sadar Vallabhbhai National Institute of Technology, Surat** *July 2019 - May 2023*
  Bachelor of Technology in Computer Science and Engineering CGPA - 7.84/10