Harsha Saketh Konjeti

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Skills

Programming Languages and Databases: Python, Shell Script, Java, C, C++, MySQL, PostgreSQL, MongoDB
Web Development Technologies: HTML, CSS, Bootstrap, Angular, SpringBoot, JavaScript, React.JS, Node.JS, Flask, RESTful APIs.
Additional Tools and Frameworks: CI/CD, SonarQube, Kibana, Git, Jenkins, Looker, Postman

Professional Experience

Tata consultancy services | PayPal Jul 2021 – Jul 2023
Systems Engineer
- Worked as a Systems Engineer at PayPal on the Merchant Reporting project, overseeing 20+ complex reporting workflows.
- Rectified over 50 bugs related to report templates, data, and infrastructure based on customer requirements.
- Specialized in managing critical issues involving multiple upstream and downstream teams and various top merchants.

Automation Engineer: **Python | Shell Scripting**
- Served as an Automation Engineer, streamlining team workflows with a focus on report generation and availability metrics.
- Detected, designed, and resolved duplicate report deliveries for Partner Reports, reducing generation time and memory usage by 40% and 30%, respectively.
- Developed scripts to monitor report generation and delivery status for key merchants like Lyft, Uber, etc., increasing transparency and saving over 4 hours of manual effort daily, resulting in a 20% productivity boost.

Full stack developer Intern - Angular| Spring boot| PostgreSQL| REST APIs Feb 2021 – Apr 2021
- CalC is a full-stack project where carbon emissions for corporate organizations are calculated over a year using user inputs.
- My contributions have been crucial in the areas of database architecture design, RESTful API creation to power backend features, and writing services to create a smooth front-end-backend integration that facilitates effective data sharing.

Projects

Secure Banking - Angular | Springboot | PostgreSQL | Spring Security
- Led the development of a full-stack banking application, prioritizing modern banking features and stringent security protocols like HTTPS to ensure secure communication and prevent unauthorized access during data transmission.
- Designed and implemented backend APIs to handle security features including JWT tokens, role-based session management, and OTP authentication. Incorporated technical security enhancements such as encryption and input validation to safeguard against various cyber threats.

A System for Evaluation and Predicting the Learning Style of Students - Machine Learning
- Developed a powerful Machine Learning model to classify students' learning styles, enhancing comprehension and optimizing individual learning approaches.
- Empowered faculty members with valuable insights for tailoring teaching methods to align with students' learning styles.
- Implemented a system that facilitated skill recognition and improvement for both students and faculty members.

LinC art gallery - React | Node | MongoDB | Netlify | Render | Firebase
- Spearheaded the development of LinC Art Gallery, a dynamic full-stack website employing React, Node, MongoDB, and Firebase, seamlessly deployed on Netlify and Render.
- Empowered customers with robust features, enabling seamless event searching, booking, and booking visibility.
- Optimized venue owners' efficiency by furnishing them with the capability to manage events seamlessly on the platform.

Publications

A Genetic Algorithm Framework to Solve Two-Dimensional Maze Problem - MARC 2021.
- The objective of this research paper was to develop an agent emphasizing self-learning to independently achieve its goal. Genetic algorithm techniques were used to empower the agent in comprehending its environment and adjusting its strategies.
- The novelty of the research lies in randomizing parameters such as direction, unit moves, and chromosome length. Complex evolutionary algorithm techniques, including a diversity-based population updating mechanism, are utilized.
- Ultimately, complex multidimensional mazes were solved using evolutionary algorithms without the necessity of reinforcement learning, resulting in optimal or nearly optimal solutions. The algorithm consistently found solutions 9/10 times.

Differential Evolution with Different Crossover Operators for Solving Unconstrained Global Optimization Algorithms-20
Comparison of Dynamic Programming and Genetic Algorithm Approaches for Solving Subset Sum Problem-ICCVBIC-19

Education

Master of Science in Computer Science Aug 2023 – present
Indiana University Bloomington
Courses: Applied Algorithms, Software Engineering, Applied Machine Learning, Advanced Database Concepts, System Protocols.

Bachelor of Technology in Computer Science and Engineering 2017 – 2021 | Coimbatore, India
Amrita Vishwa Vidyapeetham
CGPA - 8.68/10, First Class with Distinction