

Shiva Krishna Nangunuri

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📄 <https://shiva-4.github.io/shivakrishna/>

🔗 <https://github.com/shiva-4>

SUMMARY

Passionate master's student in software development with a knack for frameworks and real-world application. Demonstrates proficiency in Python, SQL Server, and AWS, and has hands-on experience with automated testing and version control. Committed to continuous learning and fostering creativity within teams.

SKILLS

Technologies: Java, Python, JavaScript, Swift, jQuery.

Frameworks: SpringBoot, Django, Flask, React, Spring Hibernate.

Databases: Relational Database, MySQL, Embedded SQL, PowerBI, Tableau, SQL Server.

Tools: RESTful API, JSON, Selenium, Postman, SoapUI, AWS, Maven, Bitbucket, Git, Jenkins

Methodologies: Continuous Integration/Delivery (CI/CD), Shift-Left Testing, Agile Development

EXPERIENCE

Developer Intern

BNP PARIBAS January - July 2022, Mumbai, IN

- Implemented XML-based logging mechanisms, improving project traceability. Streamlined Maven dependency management, optimizing development workflow.
- Designed an automated test suite with JUnit and Mockito, which detected 30+ critical issues early, ensuring uninterrupted service for 1M+ users.
- Established best practices for maintaining an up-to-date codebase, which improved code review turnaround time by 30% and fostered a team culture that prioritized high-quality, error-free releases.
- Created detailed documentation for test cases and logging procedures, enhancing team onboarding and communication.
- Developed JUnit tests with Mockito, enhancing code coverage. Managed Bitbucket repository, implemented XML logging, and optimized Maven dependencies for improved project traceability.

Test Analyst

Sapiens July 2022 - December 2022, Bangalore, IN

- Spearheaded implementation of continuous integration practices, resulting in faster bug detection and improved software stability.
- Championed adoption of shift-left testing methodologies, transforming QA processes and substantially reducing post-release defects.
- Developed and maintained comprehensive test documentation, ensuring accuracy and consistency.
- Established best practices for managing test environments through comprehensive training sessions for 20+ team members; these practices resulted in a consistent reduction in setup times by 25% and increased testing efficiency. Defined and implemented test coverage strategies for various testing levels.
- Utilized Selenium and Appium to create automated test suites, enhancing testing efficiency.

PROJECTS

Attendance Management System using Face Recognition

- Introducing an Attendance Management System fortified with advanced Face Recognition algorithms, enabling precise biometric analysis for secure and foolproof identification.
- Leveraging the potency of convolutional neural networks, the system employs intricate feature extraction mechanisms to ensure reliable and rapid facial recognition.
- The system's integration of Face Recognition technology optimizes administrative workflows by automating attendance tracking, thereby liberating resources and fostering a more efficient educational or organizational environment.

Mixed Reality Engagement for Children with Autism

- Developed MR software using Apple Vision Pro and Swift to enhance engagement in children with ASD, focusing on receptive/expressive communication and motor skills.
- Developed a multi-shared user experience using spatial anchoring, enabling synchronized interaction with digital objects across multiple devices in the same physical space.
- Utilized multimodal inputs (eye-tracking, hand-tracking, voice) to track and analyze interactions.
- Created digital avatars and objects for interactive therapy sessions, controlled by caregivers. All data collected was securely stored to ensure privacy.

Hospital Management System

- Introducing a comprehensive Hospital Management System with seamless DBMS connectivity, streamlining patient records, staff management, and administrative tasks.
- The system's DBMS connectivity empowers authorized users to access critical patient data, medical histories, and treatment plans in real-time, enhancing clinical decision-making and patient care.
- Through a robust database management system, this solution ensures efficient data storage, retrieval, and updates, facilitating accurate patient information management and streamlined medical processes.

EDUCATION

Master of Science in Computer Information Systems

University of Houston-Clear Lake – Texas, USA | Expected December 2024

Bachelor of Technology in Information Technology

Jawaharlal Nehru Technological University – Hyderabad, India | 2018 – 2022

CERTIFICATIONS

Cybersecurity

CISCO

Python Certification

Hacker-Rank

Java

NPTEL

Publication's

Smart student attendance system based on facial recognition and machine learning

Springer Nature Singapore, IOT with Smart Systems: Proceedings of ICTIS 2022, Volume 2

Proctoring System for Remote Users Based on Machine Learning Techniques

Springer Journal, ICT Systems and Sustainability: Proceedings of ICT4SD 2022

INVOLVEMENT

Student Ambassador

VBIT, Hyderabad • Infosys

- Student Ambassador for training and placements for the Infytrq program.

IIIC Coordinator

VBIT, Hyderabad • VBIT

- IIIC Coordinator for placement cell and research and project development.
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