

# Shiva Krishna Nangunuri

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

🔗 <https://github.com/shiva-4>

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## 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.

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## SKILLS

**Technologies:** Java, Python, JavaScript, Swift, jQuery, J2EE.

**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

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## EXPERIENCE

### Developer Intern

**BNP PARIBAS** January 2021- 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.

### Software Development Engineer in Test (SDET)

**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.

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## 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.

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## 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

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## CERTIFICATIONS

### Cybersecurity

CISCO

### Python Certification

Hacker-Rank

### Java

NPTEL

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## 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

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## 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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