

PANDUGAYALA NITHIN YADAV

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PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions, Hyderabad, India

Programmer Analyst | 2021 – 2023

- Debugged and troubleshooted software, performed comprehensive system analysis, which increased the software efficiency from 35% to 85%
- delivered effective solutions that optimized business processes and drove seamless user experiences.
- Created Azure pipelines triggered hourly for frameworks where the average success rate is more than 70%
- Scripted a framework for automation using reusable functions that was adopted by 8 other teams
- Implemented a shell adapter for Java-Maven framework authentication which helped to complete 11 other automation flows
- Employed XML scripts to call Python Flask API using Java for OTP responses which helped to complete 7 automation flows.
- Contributed to a conference demonstrating Automation flow with Computer Vision which helps for blind people as 1% of the world is visually impaired.
- Successfully revived 1 year-long halted Automation flow using Computer Vision and OCR techniques and cut down manual work by entire 100%
- Engineered a cutting-edge container hosting solution leveraging Java and Node.js, introducing a game-changing API call, and optimizing body and headers; achieved an impressive 95% increase in hosting capabilities
- Live logging in containerized frameworks was created for every 30 seconds.
- Supported many teams during their onboarding and raised the success rate of the script to almost 100%

Publication

Reconstruction of an Auto-Rickshaw Frontal Crash using FE Simulation with Validation using Captured Crash Video from India and got a deformation accuracy of 71%

| Python, OpenCV, MATLAB, Video Stitching, Ansys, LS-Dyna

- Conducted frontal crash simulation using three-wheeler CAE model and a driver dummy.
- Compared frontal crash effects with Simulation and real-time crash video.
- Stitched frames to calculate PPM (Pixels per meter) for velocity estimation.
- Accurate analysis aiding manufacturers in crash simulations.
- Cost-effective alternative to real car crash analysis.

EDUCATION

University at Buffalo, Buffalo, New York
Master's degree | 2023- 2025

Sastra University, Thanjavur, India
Bachelor of Technology | 2021

TECHNICAL SKILLS

Programming/Scripting Languages: Python, Java, C++, C, JavaScript, Shell scripting

Operating Systems: Windows, Linux (Ubuntu, Debian)

Skills and Tools: Git, MATLAB, AzureDevOps, Docker, Kubernetes, TensorFlow, Keras, Heroku, Machine learning, Deep learning, Data science

Databases: MySQL, Oracle, MongoDB

Certification: AZ-104

Awards

- Finalist in Brakes India Industrial Hackathon on Machine Vision
- Finalist in the WACAMLDS Australian Hackathon

