Yeshwanth Kanukuntla

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Experience

Planon Hyderabad, India
Software Engineer *Aug 2022 – Aug 2023*

- Architected and executed manual and automated test cases for cloud-hosted applications, ensuring functionality and reliability.
- Conducted comprehensive performance testing on over 50 cloud applications, identifying bottlenecks and improving response times by up to 40%, ensuring optimal user experience under varying load conditions.
- Identified, diagnosed, and resolved cloud infrastructure issues reported by cross-functional teams, improving system reliability, performance, and availability across AWS-based environments.
- Configured test environments and identified inefficiencies in QA processes, proposing improvements that enhanced testing coverage and reduced manual efforts, leading to a 25% increase in testing efficiency.
- Identified and documented test failures in JIRA, ensuring prompt resolution through effective collaboration with Agile delivery teams and continuous communication with developers.

Indian Servers Hyderabad, India
Software Engineer *May 2021 – Jun 202*

- Developed web-based modules and backend APIs using Python and JavaScript, improving platform responsiveness and modularity.
- Built and maintained RESTful APIs to support user authentication, data handling, and real-time operations across distributed systems.
- Collaborated on cross-functional teams to optimize DevOps workflows, resulting in a 35% increase in system uptime and enhancing overall application reliability for high-priority projects.
- Worked closely with cross-functional Agile teams to deliver testable modules and improve regression coverage.

Projects

CloudCassion- Self-Hosted File Sharing Platform | *TypeScript, FastAPI, Terraform, Docker, AWS* July 2025

- Designed and developed a secure, scalable full-stack SaaS application for file sharing and granular access control, supporting both individual users and organizations.
- Achieved 90%+ test coverage with automated unit/integration tests using Pytest, Jest, and Cypress across backend, frontend, and workflows.
- Integrated Prometheus and Alertmanager to trigger alerts based on log anomalies captured via AWS CloudWatch.
- Ensured scalability and resilience using Terraform for infrastructure as code and CI/CD via GitHub Actions.

Cloud-Based CI/CD Pipeline with Automated Testing | *Python, Docker, Kubernetes, Terraform* June 2025

- Designed and implemented a cloud-native CI/CD pipeline using GitHub Actions, automating build, test, and deployment workflows.
- Integrated testing frameworks (Pytest, Selenium), achieving early bug detection and reducing defects by 35%.
- Implemented security checks (Trivy, SonarQube) for secure container images and compliance with best practices.
- Provisioned cloud infrastructure using Terraform and Docker across AWS/GCP/Azure for deployments.

Education

University of Central Missouri Aug 2023 – May 2025
Master of Science in Cybersecurity and Information Assurance

Jawaharlal Nehru Technological University Aug 2019 – May 2023
Bachelor of Technology in Computer Science and Engineering

Technical Skills

Programming Languages: Python, C, C++, C#, Java, Bash, Powershell, TypeScript
Testing & Debugging: QF-Test, Selenium, Manual Testing, Regression Testing, Functional Testing, Unit Testing
Web Development: JavaScript, Node.js, React, Angular, HTML5, CSS, Express.js
DevOps CI/CD: AWS, Azure, GCP, Docker, Kubernetes, Terraform, Jenkins, Git, Grafana, Prometheus, Firebase
Build Systems & Source Control: Perforce, Git, GitHub, Bitbucket, Derived Data Cache (DDC), Packaging Systems
API Testing: Postman, REST APIs, SOAP APIs, RestAssured, WebSockets
Tools and Platforms: ELK Stack, JIRA, Bitbucket, Confluence, Twilio, WebRTC
Database Management: MySQL, PostgreSQL, MongoDB, Firestore, Redis
Machine Learning: Transformers, GPT-3, Few-Shot Learning, PyTorch, Signal Processing, LLM Embeddings
Other: Agile Methodology, Scrum, Root Cause Analysis, Object Oriented Programming, Realtime Systems