




Deepanshu Ganguli

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Education

Vellore Institute of Technology, Bhopal (CGPA: 7.91)

B.Tech - Computer Science and Engineering(Core)

2021 - 2025

Bhopal, Madhya Pradesh

Army Public School Shankar Vihar (XII' 79%)

2020

Central Board of Secondary Education

New Delhi

Army Public School Shankar Vihar (X' 94.8%)

2018

Central Board of Secondary Education

New Delhi

Technical Skills

Languages: Python, C++, SQL, Shell

Frameworks/Tools: Linux, Git, JUnit, Selenium, VS Code, Docker, Kubernetes, Terraform, CI/CD, Agile Methodologies

Familiar skills: AWS, Operating System, Networking, Databases, SDLC, API Testing, Manual/Automation Testing, Algorithms & Data Structures

Projects

Smart Healthcare Website Testing Automation

Selenium, JUnit, Java, Postman, MySQL

- Enhanced test coverage by 30% for a hospital's digital platform by automating 50+ test cases using Selenium WebDriver and JUnit, ensuring comprehensive manual and automated testing for critical modules like Consultation and Payment while adhering to QA standards.
- Reduced bug identification time by 25% through the implementation of JMeter for performance testing, verifying system stability under high traffic scenarios, and achieving a 15% improvement in response times across the platform.
- Increased test efficiency by 40% by integrating continuous testing within a CI/CD pipeline using Maven, Git, and Postman, automating functional and API tests for critical modules like payment processing and patient detail management
- Executed shift-based testing and weekend support for critical release cycles, ensuring defect tracking, documentation, and timely bug resolution in compliance with QA methodologies, while collaborating cross-functionally to maintain product quality standards.

Deployment of Cloud Native Monitoring Application on Kubernetes

Python, Flask, Docker, Kubernetes, AWS, CI/CD

- Designed and deployed a Python-based cloud-native monitoring application using Flask, Docker, and Kubernetes, integrating SQL for efficient data processing and analytics in AWS ECR containerized environments.
- Engineered fault-tolerant Kubernetes deployments to optimize database queries, enhance system performance, and ensure secure application exposure, supporting high-volume data transactions.
- Developed Terraform-based automation for multi-cloud provisioning, streamlining Snowflake database deployments, data pipelines, and cloud-native workflows in large distributed environments.
- Improved scalability, reliability, and security for 200+ microservices, leveraging SQL-driven analytics to support data integrity, business intelligence, and cloud-native innovation.

WEATHER ANALYSIS APP

- Designed Weather Application: Built a responsive web app using HTML, CSS, and JavaScript to deliver real-time weather updates for user-specified locations.
- Addressed API for Live Data Retrieval: Utilized a weather API to fetch accurate temperature, humidity, wind speed, and forecast details, ensuring up-to-date insights of 200 plus cities.
- Executed Intuitive User Interface: Implemented a visually appealing and interactive UI to enhance user experience and accessibility.
- Supervised Performance and Scalability: Ensured smooth API integration, efficient data handling, and responsive design for seamless cross-device functionality.

Certifications

Google Cloud Digital Leader

Nov 2024

Google

Ethnus AWS Solutions Architect Internship

June 2023

Ethnus

Achievements/ Co-Curricular

- Idea-thon Finalist, VIT Bhopal: Achieved finalist position, demonstrating innovative and collaboration skills in a competitive tech driven environment.
- INTACH Heritage Quiz Finalist: Secured finalist spot at the interschool level, showcasing strong research abilities, cultural knowledge, and teamwork in a prestigious academic competition.

Languages and interests

Languages: English, Bengali, Hindi

Interests: Football, History