

Siddhant Mishra

Devops Engineer

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 Siddhant's Portfolio

Profile

As a **DevOps Engineer**, I specialize in developing and deploying production builds, creating efficient **CI/CD pipelines** using **Jenkins**, and managing **cloud infrastructures** to support seamless deployments and scalable operations. I have strong expertise in **automation**, having worked on various processes to streamline workflows, improve system efficiency, and reduce manual intervention. As **Manual Tester** I've experience in **Quality Assurance**. Proficient in **manual testing**, **regression testing**, **bug tracking**, and **test cases** and **test plan** creation.

Experience

Devops Enginner
TVID Services 

July 2024 – present | Greater Noida (Full-time onsite)

- **Continuous Integration and Continuous Deployment (CI/CD)**
 - **CI/CD Pipeline Development:** Developed and deployed automated CI/CD pipelines on AWS and GCP instances using Jenkins, reducing the need for manual deployments.
 - **Efficient Project Deployment:** Successfully led deployment initiatives for multiple web projects hosted on **AWS EC2** and **GCP instances**, ensuring **optimized workflows**.
 - **Blue-Green Deployment:** Implemented Blue-Green deployment strategies to achieve near-zero downtime during updates, enhancing production stability and user experience.
 - **Pipeline Optimization:** Streamlined pipeline processes, including testing, build automation, and version control, to enhance system reliability and reduce deployment errors.
- **Automation:**
 - **APK Build Automation for Android and Roku:**
 - Developed a **Python (Streamlit)** and **Docker**-based web application to automate APK builds for **Android Mobile**, **TV**, and **Roku** applications.
 - This enabled **client-specific** customization by automating the inclusion of drawables aligned with differnent Maestro platform, ensuring consistent branding.
 - Designed an **intuitive interface**, allowing clients to initiate **APK builds** effortlessly, **improving user experience** and accessibility.
 - **Backend and Admin Dashboard Automation:**
 - Automated the provisioning of **EC2 instances** using **Python (Streamlit)** and **Terraform**, enhancing deployment efficiency and resource management.
 - Designed and implemented the automation of a **Laravel-based backend** and **Admin Dashboard** to manage a streaming service, supporting real-time operations for **multiple active consumers**.
 - Ensured **scalability** and **reliability** by integrating **Infrastructure as Code (IaC)** principles and streamlining the deployment pipeline.
- **Testing**
 - Working closely with the **software development team** to ensure **bug-free** applications.
 - Responsible for all phases of **product testing**, including planning and delivery.
 - Writing extensive **Test Cases** and **Bug Reports**.
 - Provided numerous recommendations on ways to improve the user experience.
 - Performed manual testing on 3 applications.
 - Responsible for **testing** the apps and supporting senior colleagues by identifying **bugs** and suggesting **improvements**.

Extracurricular

NSS (National Service Scheme) Volunteer for 2 years

Core Competencies

- **Automation & Scripting (Python)**
- **CI/CD Pipeline Development**
- **Cloud Infrastructure Management**
- **Monitoring and Logging**
- **Security and Compliance**
- **Containerization and Orchestration**
- **Version Control**

Technical Skills

Programming languages:
Python, Java

Devops:
Docker, Jenkins, CI/CD Pipelining, Automation, Shell Scripting, Nginx/Apache, GCP (Google Cloud Platform), AWS (Amazon Web Services), Microsoft Azure, Kubernetes (k8s), Terraform.

Developer Tools:
Linux(Ubuntu), VS Code, Git,GithubJupyter, Notebook, Google Colab, Postman.

Databases
MySql


Manual Testing:
Manual Testing, Quality Assurance, Functional Testing, Regression Testing, Bug Tracking, Test Plan Creation, Software Development Life Cycle, Test Cases Creation, Jira, Zephyr

Frameworks/Libraries:
Streamlit, Numpy, Pandas, Matplotlib, OpenCV, Random Forest Regressor, NLTK (Natural Language Toolkit), LSTM


Education

United College of Engineering and Research
December 2020 – July 2024 | Prayagraj, India
Bachelor of Technology in Computer Science and Engineering
PERCENTAGE: 74%

Academic Projects

- Stock Sentiment Analysis using News Headlines** 
- Built a **Python sentiment analysis model** to predict stock market movements by analyzing news headlines using **Natural Language Processing (NLP)** techniques and **Long Short-Term Memory (LSTM)** networks, achieving **89% accuracy**.
 - Data collection, cleaning, and preprocessing for over 50,000 news headlines using tokenization and stemming enhanced input quality leading to an increase in predictive performance of the model.
 - Utilized libraries such as **Pandas**, **TextBlob**, **NLTK**, **Keras**, **Scikit-learn**, **Matplotlib**, and **Seaborn**, alongside metrics like **Classification Report**, **Confusion Matrix**, and **Accuracy Score**.

Public Speaking Experience

- President For UGI Toastmasters** 
- July 2023 – December 2023
- **Leadership and Management:** Led a team of 20 members in organizing weekly sessions focused on communication and public speaking.
 - **Public Speaking and Mentorship:** Mentored new members, helping them build confidence in public speaking and facilitating personal growth through structured feedback.
 - **Communication Skills:** Worked on my own interpersonal skills by facilitating team meetings, resolving conflicts, and encouraging an inclusive environment.