Swapnil Patel

patelswapnil2308@gmail.com

AT PO MUNAI TA BHILODA DIST ARAVLLI PIN 383450

Indian

swapnilpatel2308

9313398797

2002/08/23

Swapnil-patel

Protfolio

Profile

Dynamic and passionate technology enthusiast with a strong interest in exploring new innovations and emerging trends in computing. A quick learner who thrives on adopting and mastering cutting-edge technologies. Experienced in Site Reliability Engineering (SRE) with hands-on expertise in Linux systems, AWS cloud infrastructure, and modern monitoring tools. Skilled in scripting languages and automation, with a proven track record of improving system reliability and operational efficiency. Eager to contribute technical knowledge and innovative thinking to drive continuous improvement and deliver robust solutions.

Education

2020/06 – 2024/06 **Bachelor of Engineering**
Vishwakarma Government Engineering College
I had achieved 9.02 CGPA

2018/06 – 2020/03 **12th Board**
Faith Higher Secondary School
Percentile Rank-Science Theory = 96.00
Percentile Rank - Over All Theory = 90.84
Percentile Rank - Over All = 91.86

2016/06 – 2018/03 **10th Board**
Sheth Shri Dahyalal Punjiram Shah High School
Percentile Rank = 99.17

Skills

- **Cloud Platforms**: AWS
- **Containerization**: Docker
- **Orchestration**: Kubernetes
- **Infrastructure as Code (IaC)**: Terraform, Ansible
- **CI/CD Tools**: Jenkins, GitHub Actions, GitLab CI/CD
- **Monitoring and Logging**: Prometheus, Grafana,Sensu
- **Noise Reduction Tool :** Moogsoft (Enterprice/Cloud)
- **Version Control**: Git,GitLab
- **Programming/Scripting Languages**: Python, Bash,C,GO
- **Operating Systems**: Linux (Red Hat, Ubuntu, CentOS), Windows
- **Networking**: DNS, Load Balancing, Proxy Servers (Nginx, HAProxy), Proxysql
- **Web FrameWork :** Flask,FastAPI,Django
- **Messageing queue** : RabbitMQ
- **Database Management**: MySQL, AWS RDS
- **Incident Management**: Servicenow,Jira

Languages

- English
- Hindi
- Gujrati

Experience

Crest Data
CS House, Sarkhej - Gandhinagar Hwy, nr. Sanand - Sarkhej Road, Makarba, Ahmedabad, Sarkhej-Okaf, Gujarat 382210
~ 2-Year Work Experince As a Site Reliability Engineer in Moogsoft Enterprice and Cloud product.

- Managed and maintained infrastructure on AWS, ensuring high availability and scalability of critical systems.
- Designed and implemented CI/CD pipelines, including blue-green deployments and in-place upgrades, to streamline release processes and reduce downtime.
- Created custom internal tools to automate repetitive tasks, increasing productivity and minimizing human error.
- Automated routine tasks and workflows using scripting languages, improving operational efficiency and reducing manual intervention.
- Enhanced and maintained monitoring scripts to proactively detect and resolve system issues, contributing to improved system reliability.
- Handled customer support cases, responded to customer calls, and performed thorough troubleshooting to resolve technical problems quickly and effectively.
- Actively explored and adopted new technologies to improve system performance, monitoring, and deployment strategies.

Certificates

- Python 3 Coding
- Internship Data science
- Data science IBM

Projects

Weather API Report Generator
The "Weather API Report Generator" project is a web application that allows users to enter latitude and longitude coordinates to retrieve weather data from an external weather API. The application utilizes Python FastAPI to handle user requests and interact with the API.
When a user submits the latitude and longitude values, the application makes a request to the weather API(visualcrossing.com) and retrieves relevant weather information such as temperature, humidity, wind speed, and precipitation. The retrieved data is then processed and formatted into a graphical report.

Flipkart review analyzer chrome extension
The Flipkart review analyzer chrome extension project aims to provide users with an easy way to analyze product reviews on Flipkart. By simply clicking on the extension, users will be presented with a popup window that displays the analysis of positive and negative reviews for the selected product

Disk Scheduling Algorithms Simulator
The "Disk Scheduling Algorithms Simulator" implemented in Python is a simulation tool that helps users understand and compare different disk scheduling algorithms used in operating systems. The simulator provides a visual representation of disk operations and allows users to observe the behavior and performance of various disk scheduling algorithms.
The simulator supports popular disk scheduling algorithms such as FCFS (First-Come-First-Served), SSTF (Shortest Seek Time First), SCAN, C-SCAN, LOOK, C-LOOK, and more. Users can choose the algorithm they want to simulate and observe how it handles the given disk requests.

Theory of Computation Simulator
The "Theory of Computation Simulator" is a desktop application that offers a comprehensive environment for simulating various automata and computation models. It supports Finite Automata (FA), Deterministic Finite Automata (DFA), Non-Deterministic Finite Automata (NFA), NFA to DFA conversion, Mealy machines, Moore machines, and DFA string acceptance.
With an intuitive interface, users can create custom automata by drawing states, transitions, and accepting states. They can input strings to observe the automata's behavior, including state transitions, final state determination, and output generation for Mealy and Moore machine.

Publications

2023/06 **A Comparison between Custom Activation Function with Existing Activation Function**
International Journal for Scientific Research and Development This research paper investigates the performance and comparison of custom activation functions with existing activation functions in the context of convolutional neural network (CNN) models.

2023/11 **A Low-Cost Solution For Multi-Sensor Integration Via Single Analog Pin**
- Proposing a novel method to sequentially capture multi-sensor data through a single analog pin, significantly reducing hardware complexity and cost.
- Demonstrated a scalable, cost-effective approach for integrating multiple sensors using a 4017 counter, enabling robust multi-sensor capabilities ideal for various applications.