Vasu Bhimani

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Education

Chandubhai S. Patel Institute of Technology - CHARUSAT   July 2023 - July 2026
B.Tech in Information Technology

Dr.S.&S.S.Gandhi College Of Engineering & Technology   June 2020 - May 2023
Diploma in Tnformation Technology

Skills

Languages: Python, JavaScript, Java, HTML, CSS, Bash

Technologies & Tools: Flask, Node.js, MySQL , MongoDB, Git, GitHub, GitHub actions, Linux, Docker, Terraform, Ansible

Certifications & Badges: AWS Certified Cloud Practitioner, AWS Cloud Clubs Infrastructure Camper, AWS Academy Cloud Developing, Google Cloud Cybersecurity Certificate

Experience

DI Solutions   May 2024 - Jun 2024
Backend and Cloud intern   *Python, JavaScript, Flask, Git, GitHub, AWS*

- Developed robust backend functionalities using **JavaScript** and **Flask** for scalable web applications.
- Utilized **Git** and **GitHub** for efficient version control and team collaboration.
- Explored **Amazon Web Services (AWS)** for deploying and managing cloud-based applications.
- Leveraged Docker for application containerization and gained expertise in **Continuous Integration and Continuous Deployment (CI/CD)** pipelines for automated deployment.

Projects

InstantHost   - Ongoing
AI-Driven Cloud Deployment Automation Solution   *Python, JavaScript, Terraform, AWS ECS ECR, AWD RDS, Flask*

- Developed a **cloud-based** web application that enables users to deploy websites to their cloud platform using a GitHub URL and minimal site details, reducing deployment time by **80%**.
- Implemented **auto-scaling** and **load balancing**, maintaining peak operational efficiency and consistent availability
- Integrating machine base learning **(ML)-based Dockerfile generation**.
- Automated **AWS Elastic Container Registry (ECR)** image builds and **AWS ECS Fargate** deployment, achieving optimal service availability and reliability.
- Automated cloud resource provisioning with **Terraform** (Infrastructure as Code), requiring no manual setup for users.

AI Avatar Booth
AI-Powered Photo Avatar Generator   *Python, AWS RDS, EC2, S3, JavaScript, Flask, HTML, CSS*

- Developed a web application using **Flask** for backend development and **AWS RDS** for database management.
- Utilized **REST APIs** to process attendee photos, generate AI avatars, and send them via email.
- **Hosted the application on AWS** using various services, ensuring scalability and reliability.
- Deployed the project at **AWS Student Community Day**, where it was used by over **200+ attendees**, including students, speakers, and guests, to generate their AI avatars.

App Deployment with DevOps Tools
Deploy Flask Application Using DevOps Tools   *Terrafrom, AWS EKS, Docker, SonarQube, Github Actions*

- Deployed a full-stack Flask application on **AWS EKS**, utilizing **Docker** for containerization and Kubernetes (EKS) for scalable orchestration.
- Automated infrastructure with **Terraform** and **managed CI/CD pipelines** with GitHub Actions.
- Integrated security scanning with **Trivy**, real-time **Slack notifications**, and code quality checks with **SonarQube**.

Leadership and Volunteering

National Cadet Corps (NCC)
Senior Under Officer Rank holder

- Achieved the rank of **Senior Under Officer**, the highest in the NCC, awarded to individuals who demonstrate exceptional **leadership, discipline, and dedication** by **leading 150+ cadets** across **three college NCC units**. Earned **'C' and 'B' certificates with Alpha grade**, showcasing expertise in **Indian Armed Forces operations** and **weapons handling**.