ANKITH B V

📞 +91 7406552044 — ✉ ankithbv007@gmail.com — 🔗 ankithbv — ⦿ Ankithv007

Skills

Cloud & Infrastructure	AWS, Terraform, Ansible, Jenkins
Containers & Orchestration	Docker, Kubernetes
Languages & Version Control	Python, Bash, MySQL, NoSQL, HTML, CSS, JavaScript, Git, GitHub
Observability & Monitoring	Prometheus, Grafana

Experience

Velankani Ai And Cloud Solutions.   **Jan 2025 – present**
Software Developer (Intern)

Project: Cloud Infrastructure Migration (AWS to Vultr)

– Collaborated with the team on the **migration of infrastructure from AWS to Vultr Cloud**, gaining hands-on experience with real-world cloud environments.
– Learned and understood the **existing AWS infrastructure**, including **EC2 instances, subnets, route tables, and security groups**.
– Assisted in **documenting configurations and setup** to support a smooth transition between platforms.
– Contributed to **basic migration tasks**, such as verifying connectivity, checking service availability, and identifying dependencies.

Project: TMS320F28379D – ePWM Signal Validation

– Worked with the **TMS320F28379D microcontroller** to validate **enhanced PWM (ePWM)** signal generation for hardware-level testing.
– Configured and transmitted **PWM signals** to interface with external components and verified output waveforms using an **oscilloscope**.
– Gained practical exposure to embedded system peripherals and signal integrity testing in a real-time hardware environment.

Projects

Wanderlust-Mega-Project (end-to-end CI/CD) ⦿ — *Jenkins, Docker, Kubernetes, Prometheus, Grafana*
– Engineered a robust **Jenkins-based CI/CD pipeline** automating code quality validation, security scanning (using **OWASP**, **Trivy**), and continuous deployment, ensuring rapid and secure delivery cycles.
– Automated pipeline triggers on every **GitHub commit**, integrating **SonarQube** to enforce quality gates and maintain high code standards across the development lifecycle.
– Streamlined **Docker image builds**, including automated versioning and registry pushes, coupled with **Kubernetes orchestration** for scalable, fault-tolerant production deployments.
– Implemented comprehensive monitoring and alerting with **Prometheus** and **Grafana**, alongside real-time Jenkins email notifications to provide visibility and proactive response to build and deployment statuses.

Highly Available Web Application on AWS ⦿ — *AWS, VPC, EC2, Auto Scaling, Load Balancer*

– Designed a fault-tolerant architecture using a **VPC** with **public and private subnets** across multiple **Availability Zones**, secured by **NAT gateways**, **security groups**, and custom **routing tables**.
– Deployed and auto-scaled **EC2 instances** behind an **Application Load Balancer (ALB)** with integrated **health checks**, enabling high availability, traffic distribution, and proactive failover.
– Implemented dynamic scaling via **Auto Scaling Groups**, ensuring optimal **performance**, **cost-efficiency**, and seamless user experience during varying traffic loads.

Game 2048 on Amazon EKS ⦿ — *AWS EKS, Kubernetes, ALB, IAM*
– Deployed the classic 2048 game on **Amazon EKS**, leveraging Kubernetes for scalable and resilient container orchestration.
– Configured **AWS ALB Ingress Controller** to automate traffic management and provisioning of load balancers, enabling seamless external access.
– Implemented **Kubernetes Ingress and NodePort Services** to expose the application with fine-grained routing and port-level accessibility.
– Integrated AWS **IAM roles** for secure identity and access management within the Kubernetes environment, enhancing operational security.

Education

MVJ College of Engineering   **2019 – 2023**
Bachelor of Engineering in Computer Science