YESWANTH TEJA KARANAM

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EDUCATION

Maharaj Vijayaram Gajapathiraj College, *B.Tech in Computer Science and Engineering*	GPA: 7.62	May 2024
Sri Chaitanya Junior College, *Board of Intermediate Education*	GPA: 9.53	Apr 2020
Vignan Steel City Public School, *Central Board of Secondary Education*	Percentage: 89.4	Apr 2018

PROJECTS

Multi-Region Full Stack AWS DevOps Deployment ⦿   June 2025
- Developed and deployed a 3-tier application (frontend + backend + database) across two AWS regions using CloudFormation and Terraform.
- Automated infrastructure provisioning with CloudFormation and Terraform
- Built AWS CI/CD pipeline with to deploy the application using Codecommit, Codebuild, EKS
- The application accepts user data from the frontend, forwards it to the backend, and stores it securely in a provisioned RDS database.

Infrastructure Automation with Terraform Pipelines ⦿   June 2025
- Created reusable Terraform modules for automating the provisioning of AWS infrastructure including VPCs, subnets, EKS, RDS, EC2, IAM, and S3.
- Designed and executed a CI/CD pipeline using Jenkins to automate the Terraform deployment lifecycle — including init, plan, and apply stages with state locking and variable injection.
- Enabled fast, reliable, and reproducible deployments across environments with role-based access and modular infrastructure components.

Heart Disease Prediction using Machine Learning ⦿   Jan 2024 - Mar 2024
- Algorithms used: Decision Tree classifier, Random Forest, Multilayer Perceptron, XGBoost.
- Created a machine learning model utilizing k-type clustering and GridSearchCV-optimized algorithms to predict cardiovascular disease with an 84.47% accuracy, demonstrating expertise in data-driven medical research and algorithm optimization.

Python Full Stack Application ⦿   Dec 2022
- Tools & technologies used:Visual Studio Code,Django Framework, PostgreSQL,pgAdmin,HTML,CSS,Javascript,Github
- Designed and implemented a user-friendly website for food donations, allowing for real-time updates and facilitating connections between donors and recipients; tool is now utilized by 5 local charities to enhance outreach.

SKILLS

Languages	C++, Java, Python, HTML, CSS, SQL, Bash Scripting
Frameworks	Django, Rest API
Databases	MySQL, PostgreSQL
DevOps Tools	Jenkins, Docker, Kubernetes, Ansible, Git, GitHub Actions, AWS CodePipeline
IaC & Automation	Terraform, AWS CloudFormation, Python Automation
Monitoring & logging	Prometheus, Grafana, CloudWatch, CloudTrail, Sonarqube
CI/CD Add-ons	GitHub Actions, AWS CodePipeline, CodeBuild, CodeCommit, EKS, AWS Elastic Beanstalk
Operating Systems	Windows, Linux
Cloud Platforms	AWS, GCP
Coursework	DataStructures & Algorithms, Object Oriented Programming, Operating Systems, DBMS

WORK EXPERIENCE

DevOps Engineer– *UST Global, Trivandrun, Kerala*   Nov 2024 - present
- Built and maintained multi-branch CI/CD pipelines using Jenkins, Docker, Kubernetes for automated code build, test, and deployment processes across multiple environments.
- Containerized microservices using Docker and orchestrated deployment to Kubernetes clusters (EKS) on AWS.
- Automated infrastructure provisioning with Ansible, improving deployment speed and reliability
- Automated infrastructure provisioning using CloudFormation and Terraform, supporting deployments in multiple AWS regions.
- Designed and implemented GitOps practices with GitHub and Webhooks, integrating Jenkins, Kubernetes, and Helm.
- Managed secure resource access using IAM roles and policies; integrated RDS databases with backend services securely.
- Implemented Ingress controllers, health checks, and monitoring via CloudWatch, Grafana, Prometheus, SonarQube improving system observability and availability.
- Developed reusable IAC templates and maintained version-controlled infrastructure repositories with peer-reviewed changes.

Python Developer Intern – *Nexiilabs, Vizag, AndhraPradesh*   Sept 2024 - Oct 2024
- Worked on multiple real-time projects involving web and app scraping using Python and Playwright, including LinkedIn data extraction.
- Contributed to the development of an e-commerce application using Python, Django, and REST APIs.
- Gained hands-on experience in backend development, API integration, and data automation tasks.

NR TechCreatz pvt Ltd, AHub, Vizag – *Python Full Stack Developer Intern*   May 2024
- Planned and developed an E-commerce website using Django Python framework for the Backend,HTML CSS Javascript for the Frontend, and Postgresql for the Database.
- Implemented user authentication, product catalog, shopping cart, and payment gateway functionalities.

CERTIFICATES

  - AWS Cloud Practitioner
  - Google Cloud Associate Cloud Engineer
  - Salesforce Developer Internship
  - Jenkins Certification from udemy
  - Kubernetes Certification from udemy
  - Bash Scripting and Shell Programing from udemy
  - Cloud Computing Certification of NPTEL