

# VISHAL DANGUDUBIYYAPU

Bangalore, Karnataka, India | Ph: +91 6281184080 | [vshaldb@gmail.com](mailto:vshaldb@gmail.com) | [Linked In](#) | [GitHub](#)

## EDUCATION

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### VELLORE INSTITUTE OF TECHNOLOGY

Integrated Master of Technology in Computer Science and Technology

**CGPA:** 8.51

Vellore, India

Jul 2019 - Present

### FIITJEE JUNIOR COLLEGE

Mathematics, Physics and Chemistry

**Percentage:** 94.6

Visakhapatnam, India

Jun 2017 – May 2019

## WORK EXPERIENCE

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### SYNOPSYS

Technical Intern

Bangalore, India

Jul 2023 – Present

**CI/CD:** Developing and maintaining CI/CD pipelines for automated testing, deployment, and monitoring. Building services as Docker images and deploying them on Azure Kubernetes Service managing using Helm. Automation of nightly CI/CD Pipeline to build and deploy services at 19:00 hrs every day eliminating manual intervention and making code readily available on required environments.

**Infrastructure as Code (IaC):** Designing, Implementing and Managing Infrastructure as Code solutions using tools such as Terraform. Developing Terraform templates to define and provision infrastructure resources in Azure, ensuring scalability, reliability, and security.

**Open Telemetry Deployment:** Deployed open telemetry to customer subscriptions using Azure DevOps pipeline, provisioning Infrastructure using Terraform.

**Packer:** Leveraged Azure DevOps pipeline and packer to automate the creation of CI/CD agent pool (VMSS) images

**MongoDB Administration:** Maintaining MongoDB Database of all environments on Azure and Atlas. Created new clusters in atlas and Migrated data from cosmosDB. Performing database backups and restores on request basis

**Security and Compliance Controls:** Automation of security scans of all repositories/Projects using Blackduck and Polaris on Azure DevOps.

**Automation and Scripting:** Developing and maintaining automation scripts to streamline repetitive tasks using Bash and Python.

## SKILLS

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**Programming Skills:** Python, JavaScript, Bash, YAML, JSON, AZ CLI, RESTful, HTML, CSS

**Tools:** Docker, Kubernetes, Helm, Terraform, Packer, GitHub, Azure DevOps, GitHub Actions, ELK Stack, Google Colab, Visual Studio Code (VCS), Jira, Confluence.

**Cloud Technologies:** Microsoft Azure, Amazon Web Services

## PROJECTS

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### Containerization of ELK Setup | [Link](#)

- Used Docker to setup ELK (Elasticsearch, Logstash, Kibana) on Containers and Integrated all three components using docker compose.
- Defined separate docker compose files for beats like metricbeat, filebeat, heartbeat so that we can run which ever beat required.
- Integrated metricbeat to collect logs of Linux system where we are running the containers.
- Configured alerts to the metrics collected by metricbeat and enabled connector to receive mails for alerts.

### Smart Car Parking System

- Developed a smart car parking system utilizing computer vision techniques to identify incorrectly parked vehicles.
- Leveraged OpenCV libraries like Canny Edge Detection and Hough Transformation for image processing to achieve accurate detection of parking violations.
- Utilized Python libraries (CV2, Matplotlib, NumPy) for efficient image manipulation and data analysis.

## RELEVANT COURSEWORK

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- Data Structures and Algorithms
- Operating Systems
- Computer Networking
- Machine Learning
- Database Management Systems
- Artificial Intelligence

## CERTIFICATIONS

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[Developing AI Applications on Azure](#)

[HackerRank Python](#)

[HackerRank Problem Solving](#)