

Obulapuram Maheswara Reddy

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PROFESSIONAL SUMMARY

Backend Developer with 2 years of experience building and deploying Full-Stack applications, combining hands-on backend development with DevOps ownership. Skilled in Node.js, Express.js, MongoDB, and PostgreSQL for API and database design, alongside Docker, Kubernetes, Jenkins, and AWS for containerization, CI/CD automation, and cloud deployment. Comfortable owning a feature end-to-end - from database schema and REST API design through to containerizing, deploying, and monitoring the service in production.

CORE SKILLS

Cloud Platform	AWS (EC2, S3, VPC, IAM, RDS, Auto Scaling, EBS, EFS, CDN, AMI Creation)
Infrastructure as Code	Terraform
Configuration Management	Ansible
Containerization	Docker
Container Orchestration	Kubernetes (K8s), Helm Charts
CI/CD Tools	GitHub Actions, Jenkins
Version Control	Git, GitHub
Backend Development	JavaScript, Node.js, Express.js
Scripting	Shell Scripting (Bash)
Operating Systems	Windows, Linux (Ubuntu)
DevOps Practices	Infrastructure Automation, DevSecOps
Monitoring & Troubleshooting	Prometheus, Grafana
Architecture	Microservices Architecture, REST API Design
Build & Deployment	Docker Image Optimization, Release Management, Deployment Automation

PROFESSIONAL EXPERIENCE

Backend Developer & DevOps - Exceleed Consulting and Technologies

Bengaluru, Karnataka | 2024 - Present

- Designed and developed backend REST APIs using Node.js and Express.js, with MongoDB and PostgreSQL for data modeling and storage.
- Containerized backend services using Docker and deployed them on Kubernetes clusters, enabling scalable, zero-downtime releases.
- Designed and implemented CI/CD pipelines using Jenkins and GitHub Actions to automate build, test, and deployment of backend services.
- Provisioned and managed AWS infrastructure (EC2, S3, RDS, VPC) to support application deployment and scaling.
- Automated deployment and operational tasks using Shell scripting (Bash).
- Monitored production environments using Prometheus and Grafana, and resolved infrastructure and application issues.
- Collaborated in agile sprints - planning, code reviews, and iterative delivery - while owning both the backend implementation and its DevOps deployment lifecycle.

PROJECTS

Project Management System - 2024

Backend Developer & DevOps - Role-based platform to eliminate manual paperwork and manage project data across plants and departments

Backend Development

- Developed backend logic for 7 distinct roles (User, Admin, Steering Committee, Finance, HOD, ITSAP, SuperAdmin) with role-based access control using Node.js and Express.js.
- Built REST APIs for project creation via single POST requests and bulk upload, using a downloadable reference file template managed by SuperAdmin.
- Designed database schema for two project types - Cost Efficient (auto-generated 12-month finance targets with monthly actuals and rewrite tracking) and Manpower Reduction (monthly headcount tracking) - using dedicated collections.

- Built Finance workflow APIs for setting monthly targets and cumulative tracking of actuals and rewrites per project.
- Implemented Steering Committee approval workflow with bypass logic for bulk uploads and functionality to pause the application during board meetings.
- Developed SuperAdmin backend tools to manage plants, departments, designations, categories, subcategories, and full user lifecycle for Admins.

DevOps

- Containerized the application using Docker and deployed it on Kubernetes for consistent environments across development and production.
- Set up a Jenkins CI/CD pipeline to automate build, test, and deployment of backend services on every code push.
- Managed source code branching and release strategy using Git to support coordinated, multi-role feature delivery.
- Provisioned supporting AWS infrastructure and monitored production logs using Prometheus and Grafana to ensure reliability of the workflow engine.

Energy Management Project (EMP) - 2025 - Present

Backend Developer & DevOps - Platform to calculate and visualize electricity cost savings from Open Access power and rooftop solar generation

Backend Development

- Built backend using Node.js, Express.js, and PostgreSQL to model energy consumption, Open Access unit pricing, and rooftop solar generation data.
- Implemented savings calculation logic comparing per-unit cost under Open Access vs. standard grid (government) tariff, factoring in rooftop solar kWh generation when available.
- Designed PostgreSQL schema to track monthly consumption, generation, and tariff data per site for accurate cost comparison.

DevOps

- Containerized backend services with Docker and automated deployment using Jenkins and GitHub Actions CI/CD pipelines.
- Deployed and managed application infrastructure on AWS, ensuring scalability and uptime.
- Automated operational and deployment tasks using Bash scripting.

EDUCATION

Bachelor of Technology (B.Tech) - Civil Engineering

Dr. K V Subba Reddy Institute of Technology

2023 | 64.4%