

BINSON JOSEPH

binsonjoseph232@gmail.com | +91 8129135099 | Thrissur, Kerala, India
| [linkedin.com/in/binson-joseph/](https://www.linkedin.com/in/binson-joseph/) | github.com/binsonjoseph23

Currently serving as a Server Administrator Trainee at IPSR Solutions Limited, with hands-on experience in server administration, cloud infrastructure, and system management. Skilled in multiple technologies including MongoDB, AWS, EC2, Git, GitHub, Docker, Kubernetes, and Python. Proven track record of completing live projects in a real enterprise environment. Notable projects include architecting a 3-tier microservices application, building a DevSecOps CI/CD pipeline for Flask application, and designing a highly available AWS web application architecture.

TECHNICAL SKILLS

Cloud Platforms

AWS, EC2, S3, IAM, VPC, ALB, EKS, Auto Scaling, CloudWatch, VMware

System Administration

Red Hat Enterprise Linux, RHEL, Ubuntu, Linux

DevOps and Automation

Git, GitHub, Docker, Kubernetes, Terraform, Ansible, Jenkins, Trivy, SonarQube

Monitoring

Prometheus, Grafana

Programming & Scripting

Python, Bash, YAML

Concepts

CI/CD Pipelines, Container Orchestration, Configuration Management, High Availability, DevSecOps, Monitoring, Helm Package Management, Infrastructure as Code

EXPERIENCE

Server Administrator Trainee

Present

IPSR Solutions Limited

Undergoing 6-month On-the-Job Training with the Server and Cloud Administration department

- Involved in live projects assigned by the team leader in a real enterprise environment
- Developing hands-on skills in server administration, cloud infrastructure, and system management
- Completing time-bound assignments and tasks as part of a professional IT team

PROJECTS

2026

Three-Tier Snake Game

- Architected a 3-tier microservices application (4 services: frontend, backend API, auth service, MongoDB) deployed on AWS EKS
- Provisioned AWS infrastructure using Terraform including VPC, EKS cluster, node groups, IAM roles, OIDC provider, EBS CSI driver, and ECR

- Containerized 3 custom services with Docker and pushed versioned images to AWS ECR via Jenkins CI/CD pipelines; integrated official MongoDB image from Docker Hub
- Orchestrated deployment using Helm with templated manifests, including StatefulSet (MongoDB + EBS PVC), Nginx Ingress, ConfigMaps, and Secrets
- Integrated DevSecOps with SonarQube quality gates and Trivy scans, blocking HIGH/CRITICAL vulnerabilities
- Implemented monitoring and observability using Prometheus, Grafana, ServiceMonitor, and custom application metrics across 3 microservices
- Enforced Kubernetes production practices: liveness/readiness probes, resource limits, seccompProfile, and pod security contexts
- Tech: Docker, Kubernetes, Helm, Terraform, AWS (EKS, ECR), Jenkins, Prometheus, Grafana, SonarQube, Trivy, Nginx

2026

DevSecOps CI/CD Pipeline for Flask Application

- Built a CI/CD pipeline using Jenkins for build, test, and deployment workflows
- Containerized a Flask + MySQL application using Docker and Docker Compose
- Integrated Trivy scanning with vulnerability gating (HIGH/CRITICAL)
- Implemented automated testing using Pytest within the CI pipeline
- Delivered versioned Docker images to Docker Hub for traceability and rollback
- Tech: Jenkins, Docker, Docker Compose, Trivy, Pytest, Flask, MySQL, Git, Linux

2026

Highly Available AWS Web Application Architecture

- Designed and deployed a highly available AWS architecture using ALB + Auto Scaling across 2 Availability Zones.
- Built a custom VPC with 4 subnets (2 public, 2 private) and NAT Gateway for secure outbound access.
- Configured Auto Scaling Group (min 1, desired 2, max 3 instances) with ALB health checks.
- Implemented CloudWatch alarms (CPU > 70%, memory, disk) with SNS alerts and Lambda-based auto-healing, reducing manual recovery time to <1 minute.

Tech: Docker, Kubernetes, Helm, Terraform, AWS (EKS, ECR), Jenkins, Prometheus, Grafana, SonarQube, Trivy, Nginx

EDUCATION

IPSR Solutions

2025

Diploma in Cloud and DevOps.

Alagappa University

2022 – 2025

BSc in Hotel Management.