

MANOJ KUMAR MOVVA

SENIOR DEVSECOPS & CLOUD PLATFORM ENGINEER

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EXPERIENCE

6+

Years in Cloud & DevSecOps

AI-Powered Security
Multi-Cloud · Patent Inventor
IoT Platform · Embedded DevSecOps

TECHNICAL SKILLS

MICROSOFT AZURE

Azure AKS AI Foundry AGC VNet
App Service APIM Front Door ACR
Key Vault Function Apps Event Hub
Blob Storage Azure Monitor Cost Mgmt
Log Analytics

AMAZON WEB SERVICES

AWS EKS Lambda S3 EC2 IAM
SNS SES Route 53 ELB DynamoDB
CloudWatch

GOOGLE CLOUD PLATFORM

GCP Vertex AI Firebase

DEVSECOPS & SECURITY

Azure DevOps Azure Pipelines Jenkins
Git Azure Artifacts Docker Kubernetes
GitHub Black Duck Prisma Cloud
SonarCloud Coverity Trivy Mend
Maven Helm

INFRA & AUTOMATION

Terraform Ansible Python Bash YAML
Groovy

AI/ML PLATFORMS

Azure AI Foundry GCP Vertex AI Claude
GPT ChatGPT API

DB & MONITORING

MongoDB Atlas MySQL Prometheus
Grafana CloudWatch Redis Azure Monitor

MESSAGING & STREAMING

SNS SES Karix Event Hub

CERTIFICATION

Microsoft Certified: Azure Administrator

AZ-104 · Microsoft · 2025

🔗 Verify ↗

EDUCATION

B.Tech — Computer Science & Engineering

Jawaharlal Nehru Technological
University Kakinada · Andhra Pradesh 2019 / 70%

PUBLISHED WORK

Havells Sentinel AI · Patent Pending

Azure DevOps Marketplace · Private

🔗 View ↗

Professional Summary

Senior DevSecOps & Cloud Platform Engineer with **6+ years** architecting secure, scalable cloud infrastructure and autonomous AI-powered security platforms across Azure, AWS, and GCP. Specialized in Kubernetes orchestration, Terraform-based Infrastructure as Code, enterprise CI/CD automation, and DevSecOps integration. Proven track record reducing deployment time by **99%**, achieving **70% reduction in security remediation effort**, and delivering **30-35% infrastructure cost optimization**. Founded **patent-pending** AI-powered autonomous DevSecOps platform published on Azure DevOps Marketplace combining Azure AI Foundry and GCP Vertex AI. Recognized with **5 organizational awards** for platform engineering excellence supporting **150+ repositories** and enterprise-scale cloud deployments. Expert in managing production-grade AKS environments hosting **60+ microservices** with multi-zone high availability, autoscaling, traffic management, and zero-downtime deployment strategies, disaster recovery systems enabling complete infrastructure rebuild in under 4 hours, embedded firmware CI/CD across 45+ projects, and enterprise security compliance achieving **100% SAST/SCA coverage** across all technology stacks.

Work Experience

Research Engineer — DevSecOps & Cloud Platform

Jul 2024 – Present



Havells India Ltd., Bengaluru

HavellsOne Platform Engineering — IoT Smart Home Platform

- Architected production-grade Kubernetes clusters with multi-zone high-availability and traffic management for scalable enterprise applications
- Implemented Rolling Updates, autoscaling, disruption management, and health monitoring ensuring zero-downtime releases and resilient performance
- Configured API gateway-based traffic routing architecture for secure microservices communication and load distribution
- Integrated Azure Event Hub for high-throughput IoT telemetry ingestion with stream processing pipelines enabling real-time device monitoring
- Designed and deployed self-hosted CI/CD build agents on cloud and on-premises infrastructure optimizing pipeline performance and costs
- Deployed containerized applications on Kubernetes using serverless functions and container services achieving **30-35% cost reduction**
- Implemented centralized storage and backup solutions across multi-environment cloud infrastructures
- Configured centralized logging and monitoring systems with Log Analytics Workspace for real-time observability
- Established Azure Cost Management for multi-subscription cost tracking and optimization
- Implemented automated cloud cost monitoring and budget alerting across Azure and AWS environments to improve cost visibility and prevent unexpected spending increases
- Configured Azure Monitor alerts with action groups for real-time incident response
- Optimized AKS node pools with spot instances reducing compute costs by **40%**
- Implemented Azure Container Registry geo-replication for disaster recovery across regions

PATENTS & INNOVATION

Havells Sentinel AI (2026)

5 patent-pending concepts · Dev time ↓70% · DevOps overhead ↓85%

AWARDS & APPRECIATIONS



Centralized CI/CD Library

150 hrs → 1 min across 150+ repos



Flutter App Service Deploy

Custom solution (no native support)



Azure DevOps Cold Storage DR

Org rebuild <4h · 99.9% reliability



Layered Terraform Infra

Single-run provisioning in 30 min



Embedded DevSecOps

45+ projects · 5 IDEs · 50% cycle time reduction

RECOGNITION

► **ISO-27001:** 65% vuln. reduction · 100% SAST/SCA

► **Cost Optimization:** 30-35% infra savings

IMPACT METRICS

70%

Dev Time Saved

**65%**

Vuln. Reduced

**60+**

K8s Services Managed

**35%**

Cost Saved

**150+**

Repos Managed

**45+**

Embedded Projects

**<4h**

DR Full Recovery

**99.9%**

Platform Uptime



Work Experience (Havells)

CI/CD Pipeline Automation

- Built centralized YAML pipeline library controlling **150+ repositories** reducing 150-hour tasks to **1-min deployments** (👏 *Appreciation*)
- Established Git workflow strategies: 3-branch (dev, qa, main), trunk-based, and custom PR-enhanced workflow
- Delivered CI/CD for backend (Node.js, Python), iOS with TestFlight, and Android with internal testing
- Configured Azure Artifacts for private package management enabling dependency control across teams
- Architected end-to-end embedded firmware CI/CD pipelines across **45+ projects** for 5 IDE platforms (**Keil, CCS, e2studio, CS+, Holtek**) enabling automated firmware build generation, MD5 checksum validation, secure artifact delivery to manufacturing facilities, and production-board flashing workflows using controlled deployment pipelines — reducing embedded development cycle time by **50%** 🏆 (*Award*)

Infrastructure Automation & DR

- Engineered first Azure DevOps cold storage DR enabling org rebuild in **<4 hours**, 60% storage reduction, **99% reliability** 🏆 (*Award*)
- Developed layered Terraform IaC enabling single-run provisioning in **30 minutes** validated through DR testing 🏆 (*Award*)

Security & Compliance

- Standardized ISO-27001 aligned Docker base images reducing vulnerabilities **65%** with automated CVE patching
- Integrated Black Duck, Prisma Cloud, SonarCloud, Coverity achieving **100% SAST/SCA coverage** across all stacks
- Delivered Flutter to Azure App Service through custom implementation (👏 *Appreciation*)
- Managed MongoDB Atlas: v5 → v8 upgrades, migration, configurations, scaling, provisioning, and monitoring

Havells Sentinel AI (Patent-Pending)

- Founded patent-pending autonomous DevSecOps platform (Azure AI Foundry + GCP Vertex AI)
- Reduced developer time **70%** and DevOps overhead **85%** through intelligent SAST/SCA remediation
- Invented **5 patent-pending concepts** (provisional 2026) for autonomous security workflows
- Built AI engine with intelligent fix generation reducing MTTR **80%**

Software Engineer — AWS DevOps

May 2020 – Jul 2024

LIQUID Synactive Inc.

- Designed CI/CD pipelines using Jenkins, Git, Maven, SonarQube with canary deployment strategies
- Provisioned AWS infrastructure using Terraform: VPC, EC2, IAM, S3, Route53, RDS with environment-based workspaces
- Implemented Lambda functions with SNS orchestration reducing overhead 70%
- Containerized applications with Docker/Kubernetes supporting autoscaling achieving **99.8% success**
- Established monitoring using CloudWatch, Prometheus, Grafana achieving **50% MTTD reduction**
- Configured IAM policies with least-privilege and Config rules for compliance monitoring
- Deployed Systems Manager for patch management and automated AMI builds with Packer