

BHUMINATHAN M

DevOps Engineer

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CAREER SUMMARY

DevOps Engineer with 2.5 years of diverse experience. Managed deployments and maintained robust, scalable environments for 1year, ensuring smooth operations and uptime. Dedicated 1.5 years to R&D in DevOps, honing automation, CI, and process efficiency through innovative solutions.

Technical Skills

Tools: Jira, Maven, Visual studio code, pgAdmin4, DBeaver, Github action, jenkins, minIO, keycloak.

Operating system: Windows, Ubuntu.

Languages/scripts: Bash scripting, Python, YAML, Go.

DevOps tools: Docker, Kubernetes, Ansible, Helm, GIT, GitBash, AWS, Microsoft Azure, Linux, ArgoCD, Helmsman, Terraform, Nginx, Istio and Rancher.

Monitoring tools: Grafana, Kibana and Prometheus.

Professional Experience

5Sec CyberPWN Technologies PVT Limited

05/2025 – present
Bangalore, India

Product Engineering - DevOps

- Created a Probot app for notifying GitHub Actions failures, integrating Node.js, API Gateway, and AWS Lambda for automated failure alerts.
- Set up a secure environment on AWS for the Ooru project using VPC, WireGuard-based bastion (jump) server, and configured the WireGuard bastion server as a NAT gateway for internal network traffic.
- Implemented ArgoCD in MOSIP staging environment for automated, declarative continuous delivery of Kubernetes applications.
- Restructured Terraform architecture to support cloud-agnostic deployments in MOSIP infrastructure, enabling compatibility across AWS, Azure, and GCP.
- Automated RKE2 (Rancher Kubernetes Engine) cluster creation using GitHub Actions.
- Developed backup and restore scripts for Postgres, Keycloak, and MinIO to automate data protection processes and enable rapid recovery during system failures.
- Leveraged Helmsman to automate deployments and recreate the original environment in case of cluster loss, ensuring disaster recovery.
- Automated DNS configuration and SSL certificate management by integrating with DNS provider APIs and using tools like Let's Encrypt/Certbot to enable secure connectivity.
- Implemented autoscaling in MOSIP using Horizontal Pod Autoscaler (HPA) and Vertical Pod Autoscaler (VPA); later enhanced with KEDA integration alongside legacy autoscaling.

5Sec CyberPWN Technologies PVT Limited

12/2022 – 05/2025
Bangalore, India

Associative DevOps Engineer

- Managed end-to-end deployments and maintained robust environments.
- Have worked with AWS Cloud and Microsoft Azure Cloud, gaining hands-on experience in deploying, managing, and scaling secure, high-performance cloud infrastructures.
- Provided technical support to engineering teams by troubleshooting and quickly resolving deployment issues.
- Created, tested, and maintained Bash scripts to automate the installation and deletion of services within Kubernetes clusters, streamlining deployment processes and ensuring efficient service management.
- Created Helm charts to package and deploy services on Kubernetes clusters, ensuring consistent configuration.
- Implemented comprehensive monitoring and logging solutions using Prometheus and Grafana, leading to a 60% improvement in system visibility and faster incident resolution.
- Created Ansible scripts to automate repetitive and time-consuming manual processes, reducing human error and significantly improving operational efficiency. And also I have created Ansible script to provision k8s cluster using RKE2.
- Utilized Docker to containerize applications by authoring Dockerfiles, building custom images, and pushing them to Docker Hub. Later implemented Docker Buildx to build multi-architecture images supporting both ARM64 and AMD64.
- Implemented data archival script for MOSIP using Python, created a Helm chart for it, and configured it to run as parallel cronjobs.

- Trained and mentored the devops internal team to deploy the v3-infrastructure of MOSIP And Openg2p.

Precision Infomatic (M) Private Limited – Client: Sutherland, Vodafone Data Centres, Income Tax Department

02/2020 – 09/2022
Chennai, India

System Engineer

- Provided system and network support for ~50 systems at the Income Tax Department; handled hardware maintenance, OS installations, and network troubleshooting.
- Delivered end-to-end technical support to Sutherland teams and Vodafone data centre operations, including remote assistance to engineers in Mumbai using AnyDesk and server connections.
- Planned and executed a Windows 7 to Windows 10 upgrade project using bootable USB drives; backed up and restored Outlook and user data without data loss.
- Ensured system performance optimization, driver updates, and configuration of BIOS/UEFI settings during upgrades.
- Collaborated with teams to maintain business continuity by resolving critical system and connectivity issues.

Projects

MOSIP

12/2022 – present

MOSIP is a Identity platform similar to Aadhar. The Modular Open Source Identity Platform (MOSIP) helps Governments and other user organizations implement a digital, foundational identity system cost-effectively. It is an open source project funded by Bill & Melinda Gates Foundation and World Bank.Nations can use MOSIP freely to build their identity systems. Being modular in its architecture, MOSIP provides flexibility to countries in how they implement and configure their systems.

MOSIP provides the following basic features-

- Acquire an individual's identity data.
- Process the identity data to establish uniqueness.
- Generate a Unique Identity Number (UIN).
- Authenticate an individual's identity was required to provide access to services such as banks,
- social security, healthcare, and education.

Credissuer

04/2025 – 06/2025

VC issuance Platform

CredIssuer – Ooru DigitalA digital credential issuance and verification platform designed to securely issue, manage, and validate verifiable credentials such as certificates, ID cards, and licenses. CredIssuer leverages blockchain-based or tamper-proof technology to ensure authenticity and prevent fraud.

Education

PERI Institue of Technology

2019
Chennai, India

B.E Mechanical Engineer

Sivananda Saraswathi Matric Higher Secondary School

2015
Chennai, India

Pre-University Education

Sivananda Saraswathi Matric Higher Secondary School

2013
Chennai, India

SSLC

Awards

Rising Star
CyberPWN
2024
Received the “Rising Star” award from CyberPWN for excellence in Engineering innovation and emerging leadership.

DECLARATION:

I HEREBY DECLARE THAT THE ABOVE MENTIONED INFORMATION IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PLACE: Bengaluru