

VISHVA PRASAD P

Web3 & DevOps Engineer

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Profile

DevOps Engineer with 3 years of experience in automating software delivery pipelines , managing robust cloud infrastructures and blockchain technology. Proficient in Go-based chaincode development, implementing CI/CD workflows on AWS, and optimizing network performance.. Experienced with blockchain technologies like Ethereum, Hyperledger Fabric, and Besu

Education

Rajalakshmi Engineering College

Chennai, TamilNadu, India

- Bachelor's in Computer Science and Engineering [2019-2023]

Experience

Web3 & DevOps Engineer , Kerala Blockchain Academy – Trivandrum, Kerala

Sept 2023 – Present

- Created a custom Grafana dashboard with Prometheus and Alertmanager for the digital property card application, reducing downtime by 90%.
- Built Helm charts for Hyperledger Fabric application, which reduced the deployment time by 90%.
- Designed a load-balanced system using haproxy that handled 200+ concurrent requests
- Trained National Payments Corporation of India Working Professionals in Hyperledger Fabric.
- Established and managed robust backup and disaster recovery mechanisms, ensuring a recovery time objective of less than 15 minutes (RTO)

Software Engineer Intern, Kerala Blockchain Academy – Trivandrum, Kerala

Sept 2022 – Aug 2023

- Executed a comprehensive performance benchmark comparing Hyperledger Fabric and Hyperledger Besu, evaluating throughput, storage, security, and usability.
- Created a data pumper in Golang to send transactions to the Hyperledger Fabric network.
- Contributed to open source repositories like Consensys, Hyperledger Fabric.

Projects

Blockchain Based Trusted Platform for Secure Information Sharing

- Designed and implemented an offline Kubernetes cluster using Ansible Playbooks for the blockchain network, reducing the setup time by 80% and meeting strict security requirements.
- Applied alerting solutions using Prometheus, Grafana, and AlertManager, enabling the detection and resolution of critical issues before they impacted users, which reduced system downtime by 95%.
- Developed the blockchain infrastructure using Hyperledger Fabric to handle more than 500 TPS.

Digital Land Records using Blockchain

- Engineered the blockchain platform to store and process over 2 crore land records
- Orchestrated the deployment of the digital land records application on the OpenShift Container Platform.

KUHS Certichain - Blockchain-based certificate issuance and verification

- Re-architected the Certichain application, migrating it from a Docker-based deployment to a highly available Kubernetes cluster, which reduced downtime by 90%
- Engineered an automated backup and disaster recovery strategy for critical data, including Kubernetes (etcd), blockchain ledger, and MongoDB databases, achieving an RTO of less than 15 minutes

Unified Service Delivery Portal - Platform for all government services in Kerala

- Optimised resource utilisation and performance by implementing Horizontal Pod Autoscaling (HPA), ensuring the platform could scale automatically to handle fluctuating load while maintaining a 95% uptime.

Skills

Programming Languages: Golang, JavaScript, Solidity, Shell script, Mongo DB

Frameworks: Ansible, Prometheus, Grafana, Hardhat, Github Actions, Argo CD, haproxy, IPFS, Kafka.

Technologies: Kubernetes, Openshift, Docker, Blockchain, Hyperledger Fabric, Hyperledger Besu, Ethereum.

Cloud: AWS, GCP, Digital Ocean

Certifications: Certified Kubernetes Administrator, Hyperledger Fabric Practitioner, Certified Besu Professional

Communication Languages: English, Tamil, Malayalam, Japanese, German