

# 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 Consensus, 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