

Satyam

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Infrastructure and Platform Engineer from IIT Madras with production experience in cloud infrastructure automation, CI/CD pipeline design, and site reliability practices. Proven track record building and operating SCA-regulated fintech systems on AWS, managing bare-metal and virtualized environments, and establishing observability and security baselines across development and production workloads.

Experience

2Cents Group

Aug 2024 – December 2025

Infrastructure Lead

Remote / Bangalore, India

Valura.AI – SCA Regulated Fintech Platform

- * Architected production-grade **AWS infrastructure (ECS, EC2, VPC, ALB)** with isolated environments for dev, staging, and production, achieving a **99.6% service availability SLI** through instance right-sizing, automated database backups, and resilient service routing.
- * Designed **end-to-end CI/CD pipelines using GitHub Actions** with self-hosted runners, integrating automated linting, type checks, container builds, and vulnerability scanning (DevSecOps), reducing deployment time by **90%** and enabling safe daily production releases.
- * Provisioned and deployed an **enterprise-grade HPE bare-metal server**, configuring networking, storage, and virtualization from the ground up, coordinating with a co-location provider for secure hosting and reliable connectivity.
- * Architected an internal infrastructure lab using **Proxmox**, managing a cluster of **20+ Linux and Windows VMs** for staging, integration testing, and deploying internal applications with environment parity to production.
- * Strengthened **network security by deploying OPNsense** firewall with granular rule management, configuring **WireGuard VPN** tunnels for secure remote access, and enforcing network segmentation across internal services.
- * Led infrastructure and security compliance efforts for **SCA Category 5** licensing, VARA licensing, and **ISO 27001** audit readiness in Dubai.
- * Administered enterprise infrastructure with strict **RBAC and IAM policies**, managing **Microsoft 365, GitHub Organization**, and access controls across teams.

2Cents Capital – Hedge Fund

- * Built an **automated data pipeline** to aggregate, score, and allocate yield opportunities across DeFi protocols, reducing manual toil and enabling data-driven portfolio decisions.
- * Deployed and operated a **Solana-based trading bot** on cloud infrastructure, optimizing high-frequency transaction execution and implementing monitoring for uptime and performance tracking.
- * Conducted **technical audits on emerging protocols**, reviewing codebases, architecture, and security posture to identify risks before capital deployment.

Sarang, IIT Madras

Chennai, India

DevOps Engineer

July 2021 – May 2023

- Managed infrastructure and **DevOps workflows** for one of India's largest cultural festivals, ensuring **zero downtime** during peak event traffic serving 80,000+ visitors.

Projects

Blockchain SRE & Infrastructure Lab | Docker, Terraform, Prometheus, Grafana, AWS

Personal Project

- Built a containerized **SRE simulation lab** using Docker Compose with **Prometheus, Grafana, and Alertmanager**, featuring pre-provisioned dashboards, simulated failure scenarios (node crashes, high CPU), and automated alerting workflows.
- Developed a **production-ready IaC setup using Terraform** for deploying Ethereum nodes on **AWS (EC2/EBS)**, with automated provisioning, health monitoring, and observability stack (Prometheus, Grafana).

Home Network Infrastructure | Raspberry Pi, Pi-hole, Unbound DNS, Uptime Kuma

Personal Project

- Deployed **Pi-hole with Unbound DNS** on a Raspberry Pi for network-wide ad blocking and recursive DNS resolution, eliminating dependency on upstream DNS providers for improved privacy and reliability.
- Configured **Uptime Kuma** for real-time service health monitoring and uptime tracking across local network services, with alerting for downtime incidents.

FluXtream.co | Full-Stack, Smart Contracts, Aptos Blockchain

Aptos Winter School 2023, IIT Bombay

- Architected and deployed a **full-stack blockchain application** with smart contracts, managing the end-to-end deployment pipeline and web infrastructure for 50+ beta users.

Technical Skills

Cloud & Infrastructure: AWS (ECS, EC2, EKS, VPC, ALB, S3, RDS, Cognito), Terraform, Proxmox, Bare-Metal, Linux Administration

Containers & Orchestration: Docker, Kubernetes, Docker Compose, Container Registries

CI/CD & Automation: GitHub Actions, GitOps, Infrastructure as Code (IaC), Bash, Python

Observability & Reliability: Prometheus, Grafana, Alertmanager, Uptime Kuma, SLO/SLI Monitoring, Incident Response

Networking & Security: VPC Segmentation, WireGuard VPN, OPNsense, Firewall Management, RBAC, ISO 27001, DevSecOps

Programming & Frameworks: Python, TypeScript/JavaScript, SQL, Solidity, Next.js, React.js, Tailwind CSS

Certifications

Certified Kubernetes Administrator (CKA) – In Progress

AWS Certified Solutions Architect – Associate – In Progress

Education

Indian Institute of Technology, Madras

Chennai, India

B.Tech in Naval Architecture and Ocean Engineering (CGPA: 7.86)

May 2020 – June 2024

Seoul National University

Seoul, South Korea

Semester Exchange (Computer Science, Credits: 64)

Feb 2023 – June 2023