

Suraj Kushwah

DevOps Engineer - UP, India, 243006

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Work Experience

*4 years of experience with **two full-time** roles and multiple freelance projects in **DevOps & Backend**.*

OnePlay Cloud Gaming – DevOps Engineer

Mumbai, India ; Jul 2023 – Present

- Architected and managed **Prod / QA / Dev environments** on **AWS, Linode & GCP cloud**, optimizing for **cost efficiency**.
- Designed and optimized **GPU-based gaming servers** deployed at **Yotta Data Center, Mumbai**.
- Built **Kubernetes clusters** for microservices and workloads, ensuring **scalability and redundancy**.
- Implemented **CI/CD** with **Jenkins** pipelines for **automated builds, testing, and deployment**.
- Deployed **AWS GuardDuty, WAF, and HashiCorp Vault** to strengthen **cloud security** and secrets management.
- Built an **advanced observability stack** with **Grafana, Prometheus, Kibana, and Zabbix** with custom alerting.
- Managed **database clusters** like **Percona MySQL, MongoDB, Redis, InfluxDB, and Elasticsearch**.
- Automated server **provisioning, scaling, and maintenance** with **Terraform, Ansible, Bash/Python scripts**.
- Led **on-call incident management**, minimizing downtime with **proactive monitoring** and **automated failover strategies**.

Bipolar Factory – DevOps & Backend Engineer

Bangalore, India ; Nov 2021 – Apr 2023

Falcon - AI Powered Surveillance

- Developed real-time CCTV inference pipelines leveraging DeepStream & TensorRT, improving video processing speed.
- Built a REST API for AI-based smart surveillance, integrating automated anomaly detection & security alerts.
- Optimized distributed processing pipelines for handling high-resolution video feeds.

Goa Election Project

- Managed 200+ RTSP CCTV streams for real-time election monitoring.
- Developed a sound-based vote counting system using AI to detect voting machine beeps.
- Automated server deployment & scaling for monitoring high-traffic election dashboards.

StreamQuicker – Low-Latency Video Streaming

- Developed a WebRTC to RTMP streaming service using FFmpeg, RTMP, and ossrs/srs.
- Designed auto-scalable, distributed streaming architecture, improving latency and stream reliability.
- Used AI models to predict and distribute streaming loads efficiently across servers.

AiViS – Industrial AI & Automation

- Developed an AI-powered defect detection system for manufacturing quality control.
- Integrated PLC controllers for real-time industrial automation in factory conveyor systems.
- Built a data pipeline for analyzing, alerting, and reporting defects in production lines.

SafePlant – ML-Based Factory Workers Safety System

- Led the development of a plant safety system utilizing machine learning and computer vision to detect safety hazards.
- Trained models using TensorFlow to analyze plant images and videos for potential risks.
- Developed a Flask-based backend web service with WebSocket integration for real-time communication.

Key Skills

- **Cloud & DevOps** - AWS, Linode, Kubernetes, Docker, Terraform, CI/CD, GitLab, Jenkins
- **Infrastructure Management** - Foreman & Puppet, Nginx, Wazuh, Zabbix, Grafana, Uptime Kuma
- **Security & Compliance** - HashiCorp Vault, Auditd, IAM, Cloudflare, SSO, Pritunl VPN
- **Monitoring & Logging** - Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), InfluxDB
- **Networking & Load Balancing** - Nginx, HAProxy, Apache
- **High Availability & Scalability** - Auto Scaling, Load Balancers, Multi-Region Deployments, Proxmox, KVM
- **Message Queues & Databases** - Kafka, RabbitMQ, Redis, PostgreSQL, MySQL, MongoDB

Education

Bachelor in Technology & Computer Science

2018-2021

Dr. A.P.J. Abdul Kalam University - Lucknow, UP, India

Senior Secondary College

2015-2016

Maharishi Vidya Mandir - Bareilly, UP, India

Personal Projects

All my projects source code is available on <https://github.com/bugswriter/<project-title>.git>

- **ffmagic** - A simple DVR (digital video recorder) system written in Python. Runs FFmpeg with async multiprocessing.
- **tuxi** - A smart command-line assistant written in Shell. Widely used by Linux users, powered by Google search.
- **cook50** - A virtualized recipe book with a meal planner and timer, written in Flask. Features a login system.
- **zest-website** - College fest website with over 2000 student registrations. Includes profiles, events and admin dashboard.
- **bugsnavi** - A custom OS script to automate the installation and configuration of Arch Linux and essential software.
- **offerclub** - An eCommerce website built from scratch using Flask. Includes cart, checkout, and order management.

Miscellaneous

- **[BugsWriter YouTube Channel](#)** – 30,000+ subscribers; covering topics on *Linux*, *DevOps*, and *self-hosting*.
- **[Infrastructure Consulting](#)** – Advised individuals & companies on *system scalability*, *DevOps pipelines*, and *cloud solutions*.

For more details about my work, visit my personal website: bugswriter.com/work